

# THE TECHNOLOGY REVIEW



THE DOME FROM DU PONT COURT

BY SAMUEL CHAMBERLAIN, '18

NOVEMBER 1926

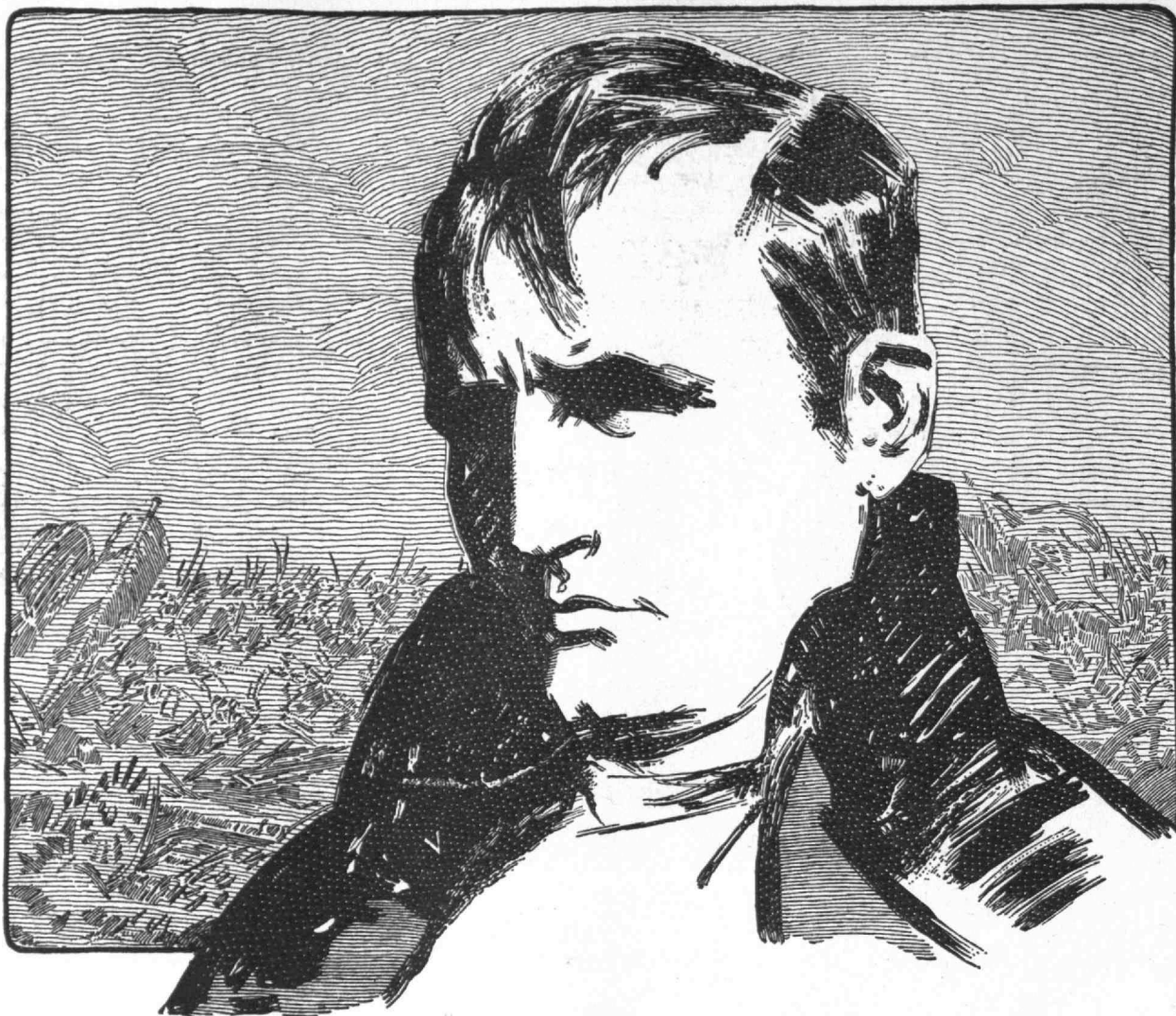
RELATING TO THE  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

# technology review

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## Man-power

Four millions of the best man-power of Europe perished in the Napoleonic conquests. Military conquest is non-creative, while industry is always creative.

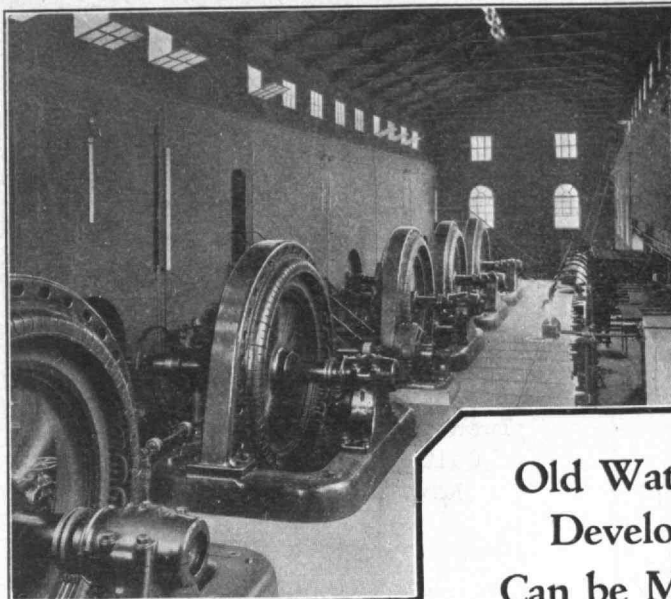


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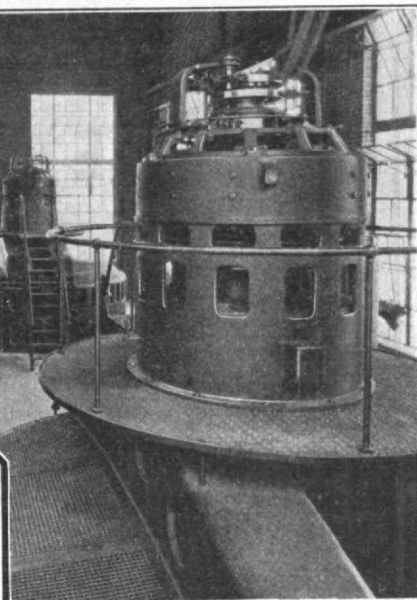
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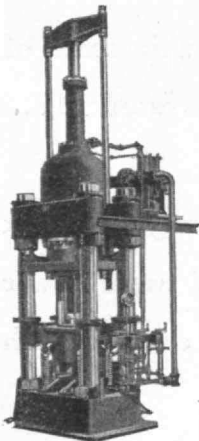
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Yours for Tech.

*Howard J. Macmillan*  
Second Vice-President  
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II-21.



P.S. I've turned magazine publisher on the side (cashing in on my experience with "TECHNIQUE"). My new publication is going under the obvious title—"THE HYDRAULIC PRESS," and deals with the manifold industrial applications of Hydraulic Pressure. I'll put your name on the subscription list, for life and without charge, if you will but indicate your interest. The first issue is ready for you right now.

# The TECHNOLOGY REVIEW

*Relating to the Massachusetts Institute of Technology*

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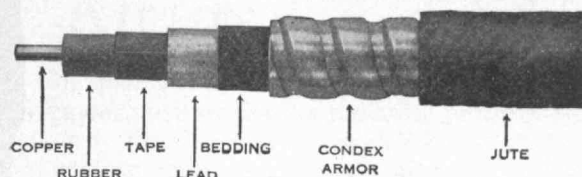
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# *The* TECHNOLOGY REVIEW

VOLUME 29

NOVEMBER, 1926

NUMBER I

## The Trend of Affairs

### *Aëronautical Secretary*

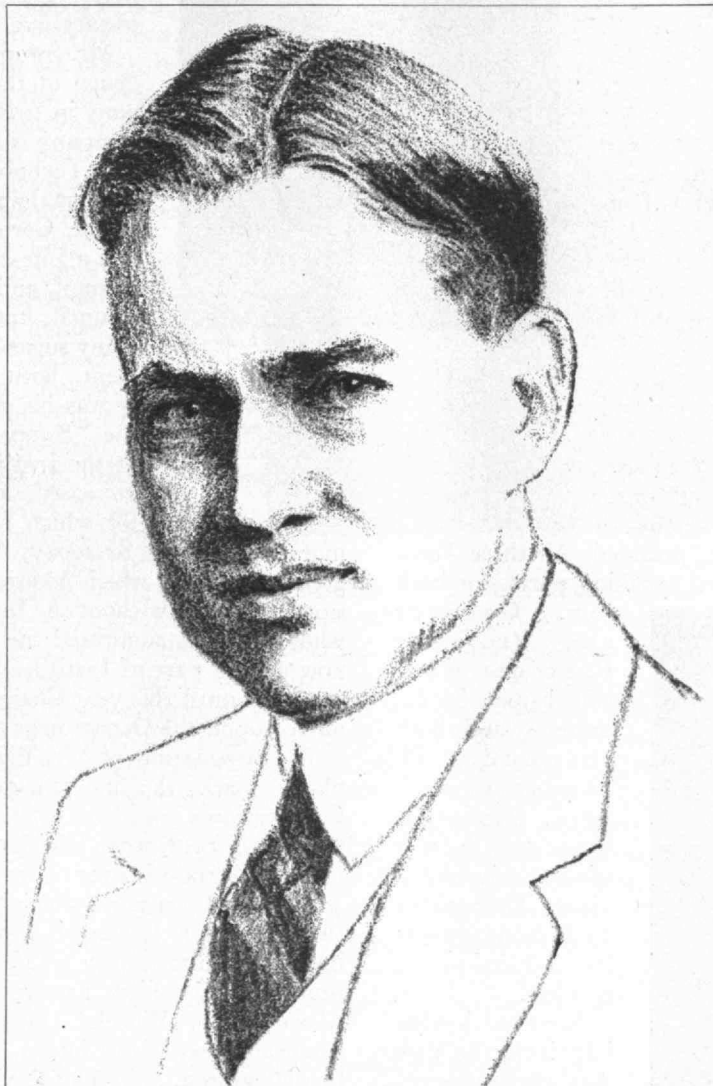
THREE ruffles, full guard, eight "side boys" at gangway, fifteen guns (the King of England would get but a paltry six additional and not a single extra "side boy"), band, dress uniforms for officers and men — all this will be observed hereafter on ships of the Navy when the boatswain pipes the side for Professor Edward P. Warner, '17, Head of the Institute's Course in Aëronautical Engineering, on leave of absence since July 12 when he took office as the first Assistant Secretary of the Navy for Aëronautics. In addition, his white flag with four blue stars and anchor will be flown at the main until he gets ready to leave, whereupon the boatswain will re-pipe, guns re-boom, "side boys" re-attend, drums re-ruffle. . . .

No such fuss and feathers ever attended Professor Warner's distinguished and highly praiseworthy record of accomplishments at Technology. Nor is it to be supposed that he will spare much time for them during what The Review hopes will be but a temporary residence in Washington pending his return to Cambridge. In the opinion of Secretary Wilbur, and many others equally competent to judge, his present public service will

afford him singular opportunity. He will have charge of working out the provisions of the naval procurement bill passed by the Congress by which \$89,000,000 was appropriated for naval aviation last spring. It will be his duty to see that the Navy gets the best types of planes and material. The creation of this new office, together with those of new Assistant Secretaries of War

and Commerce having oversight of army and civil aviation, respectively, was upon recommendation of the Committee on Aviation appointed by President Coolidge late in 1925 and headed by Dwight P. Morrow. It was Mr. Morrow who, at the Annual Dinner of the Alumni Association last January, said, "We early discovered that the best course in aërodynamics in the country was given by Technology and our most helpful assistance came from Professor Edward P. Warner of that course."

Besides being the first to fill the office, Professor Warner is one of the youngest appointees to any important post in the Coolidge administration. This November he reached his thirty-second birthday. A graduate of Harvard in the Class of 1916, he received the Institute's Bachelor of Science degree in Mechanical Engineering in 1917, its Master of Science in Aëronautical Engineering in 1919. His connection with



*From a lithograph drawn for The Review by Kenneth Reid, '18*

EDWARD P. WARNER, '17

*Since July 12 on leave of absence as Head of the Department of Aëronautical Engineering, to be Assistant Secretary of the Navy for Aëronautics*



the staff of Technology dates from 1917. He became an Instructor in 1918, an Associate Professor in 1920, a Professor in 1924, and the first head of Course XVI last March. In 1919 he was chosen chief physicist for the National Advisory Committee on Aëronautics and at about the same time became Secretary of the Committee, a position which he still holds.

Said the *New York Times*: "A better appointment could hardly be made."

### Testimonial

THE time was September 3. The place was the Pennsylvania Athletic Club, Philadelphia. The occasion was portentous: a testimonial dinner given by the Society of Automotive Engineers to Edward P. Warner, '17, to commemorate his appointment as Assistant Secretary of the Navy for Aëronautics.

As was fitting, the Institute was well represented. Lester D. Gardner, '98 (see also pages 11 and 13), Term Member of the Corporation, represented President Stratton and the Institute; Samuel C. Prescott, '94, Head of the Department of Biology and Public Health, and Vice President of the Alumni Association, represented the Faculty and Association both. And Robert E. Wilson, '16, now Assistant Director of Research for the Standard Oil Company of Indiana, but until 1922 Associate Professor of Chemical Engineering at the Institute, presided. All three Technology delegates thus played speaking parts, for both



ROBERT E. WILSON, '16

Former Associate Professor of Chemical Engineering, he presided at the Testimonial Dinner to Secretary Warner in Philadelphia on September 3

Mr. Gardner and Professor Prescott were called upon for utterance, and both responded in characteristic vein. Professor George Lewis of the National Advisory Committee on Aëronautics was in addition a speaker.

Neptune having baptized the new Assistant Secretary with sea water and presented him with a sea chest, containing such valuable



© Underwood

### FLYING SECRETARY

*Less formal, more atmospheric than the lithograph on the preceding page is this 'on location' shot of Assistant Secretary of the Navy for Aëronautics Edward P. Warner, '17*

adjuncts to political life as a swivel chair orientator and a mental eradiator, Professor Warner responded, mostly to disclaim the compliments of the evening, which came to a close with what by all accounts was a genuine "ovation", and the presentation of a testimonial album.

### Corporation Change

GERARD SWOPE, '95, President of the General Electric Company, well and justly known as one of the most active, able and interested Alumni of the Institute, became, by vote at the Institute Corporation meeting on October 13, a member of the Executive Committee of the Corporation, *vice* Frederick Perry Fish, resigned after almost twenty-five years of tenure.

Mr. Swope, who came to the presidency of the General Electric Company in 1922, after a service with the company which began in 1893 (see *The Technology Review* for November, 1922) was elected a Term Member of the Corporation in March, 1914, and a Life Member in October, 1923. Alumni, and particularly the Alumni Council, know him as the author of many suggestions in Institute government, both academic and financial. It was his suggestion, now known as the "Swope Proposal", that tuition at the Institute should be materially increased, and that scholarship aid, for which the student would sign a

moral agreement to repay, if and when possible, be greatly enlarged, which created, in 1924, a wide discussion within and without the Institute. It was Mr. Swope whose speech inaugurated the series of Aldred Lectures now a fixed part of Institute life. It is Mr. Swope who has been until this year Chairman of the Visiting Committee upon the Department of Electrical Engineering.

The resignation of Mr. Fish, whom Mr. Swope replaces, marks the first change in personnel which the Corporation's Executive Committee has undergone since October 9, 1918, when Charles T. Main, '76, was elected to it to fill the vacancy caused by the death of Colonel Thomas L. Livermore, which had occurred January 9 of the same year. It was on June 6, 1902, that Mr. Fish became simultaneously a Life Member of the Corporation and one of its Executive Committee, replacing Alexander S. Wheeler. He joined the Corporation simultaneously with Charles A. Stone, '88, and Francis Lee Higginson. Said *The Review* for July, 1902, "Mr. Fish will be well known . . . as a lawyer of high standing, and President of the American Bell Telephone Company." Then, as now, he was senior member of the firm of Fish, Richardson and Neave. An increasing burden of duties brought about his present retirement.

## Registration

**T**HIS YEAR Technology has 2,623 students, 130 fewer than a year ago, a drop in registration of 4.73 per cent. The entering class is 507 as against 501 in the fall of 1925, and the number of graduate students is exactly the same, 319. The present sophomore, junior and senior classes number 535, 603 and 629 respectively, and the corresponding figures one year ago were 587, 648 and 671.

Except for the newly created Course in Aëronautical Engineering, the Department of Architecture shows the greatest gain; 35 students, a 16.2 per cent increase. The former inaugurates undergraduate work this year (see The Technology Review for April, 1926) with a registration of 58, not including 12 graduate students. The Department of Electrical Engineering shows the largest decline; 81 students, a decrease of 11.4 per cent. Four other courses gained: Chemistry, Sanitary Engineering, Fuel and Gas Engineering, and Physics. The last named gained nearly 50 per cent of its 1925-26 figure and now has 28 registrants.

Although showing the greatest loss, the Department of Electrical Engineering is still the largest with 526 undergraduate and 97 graduate students. Engineering Administration is second with 332, Mechanical Engineering third with 313, Chemical Engineering fourth with 279, Civil Engineering fifth with 277.

In percentage the Courses in General Science and General Engineering topped the losses (35 per cent) but much of this was caused by men shifting to take the newly offered undergraduate work in Aëronautical Engineering. Mining and Metallurgy dropped 16 or 23.2 per cent; Geology, 3 or 17.6 per cent; Electrochemical Engineering, 9 or 15.8 per cent; Biology and Public Health, 5 or 13.9 per cent; Mechanical Engineering, 45 or 12.1 per cent; Engineering administration, 32 or 8.8 per cent; Naval Architecture, 4 or 7.3 per cent; Civil Engineering, 17 or 5.8 per cent. The Course in Chemical Engineering gained one student and the work of the School of Chemical Engineering Practice is being taken by 8 less. The net loss of the Department is, therefore, 2.4 per cent.

## Staff Changes

**S**UPPLEMENTARY to the list of changes in faculty personnel, by precedent made public during the last days of the Spring Term, comes now news of one new appointment, three promotions, three resignations and two leaves of absence.

The one new appointment is that of Charles H. Chatfield, '14, who comes to the Institute this fall as Associate Professor of Aëronautical Engineering, and will act as Head of the Department. The promotions are Otto G. C. Dahl, '21, who now becomes Associate Professor of Electrical Transmission, and Louis F. Woodruff,



### NEWLY CHOSEN

*Classmates. Above, Porter Adams, '14, who by election on September 9 succeeded Godfrey L. Cabot, '81, as President of the National Aëronautic Association. Below, Charles H. Chatfield, '14, new Associate Professor of Aëronautical Engineering at the Institute*

2nd, '18, who becomes Assistant Professor of Electrical Transmission and Distribution, as does also A. Royal Wood, '21.

Two of the three resignations occur in the Department of Electrical Engineering. Frederick S. Dellenbaugh, Jr., S.M., '21, has resigned to become assistant office manager with the United Fruit Company, and Claire W. Ricker, '14, left the Institute in July for North Carolina State College. The other is that of Associate Professor Harry L. Bowman, S.M., '14, who is now Head of the Department of Civil Engineering at Drexel Institute, Philadelphia.

Two members of the Faculty are granted leave of absence: Professor Hale Sutherland, '10, who will this year teach in Robert College, Constantinople, whence last year came Charles Terzahghi now Associate Professor of Foundation Engineering at the Institute; and Professor Edward P. Warner, S.M., '17, for the excellent reasons set forth in full on page 5.

## Tuition

**W**HEN President Garfield was murdered, Technology students were paying \$200 per year into the Institute's treasury and at that figure the tuition charge remained until 1906 when it was



raised to \$250. Thirteen years later, in 1919, came another increase to \$300 and, in 1921, certain laboratory fees were added. During 1925-26 the total tuition fee averaged \$330 per man. Meanwhile the press has recorded the universal upward trend of college fees; that many liberal arts colleges, although not obliged to maintain expensive laboratory equipment for instruction, have felt forced to ask \$350 to \$400 per student where before the World War they operated comfortably on \$150 or less.

The Report of the Treasurer, Everett Morss, '85, for the fiscal year ending June 30 last, concludes by stating that "... the question of a further increase in the Tuition Fee must be given serious consideration by the Corporation." He compares the situation eighteen years ago, in 1909, when tuition covered 63 per cent of the operating cost per student (excluding interest on plant investment) with today when it covers but 41 per cent. The present fee is 132 per cent and the present total net income from students is 292 per cent (due to increased registration) as compared with corresponding figures for 1909. But, as Mr. Morss points out, between 1909 and 1926 the Institute's net operating expense increased so that it is now 388 per cent of what it was. The burden of avoiding deficits and of caring for the needs of a plant investment 745 per cent that of 1909 has been assumed by increased endowment funds. These have become 1281 per cent of the \$2,185,000 of 1909 and their income has increased to 1227 per cent of the income of eighteen years ago. The question now is: Should the present student continue to pay less than half his keep?

### *Income and Outgo*

**A**S USUAL the Treasurer's Report is packed with significant data on the operation of the Institute during the past fiscal year. Gross income exceeded gross expense by \$53,000 and net income exceeded net expense by \$18,000. Although income from students fell off \$28,000, net operating income passed the two million mark for the first time and exceeded that of 1924-25 by 10 per cent because income from endowment and other sources increased \$228,000.

Academic expenses increased \$127,000 or 10 per cent over 1924-25 (\$100,000 being for teachers' salaries); administration cost went up \$11,000 or 4 per cent; plant

operation and maintenance decreased \$5,000 or 1.3 per cent. Miscellaneous expenses dropped \$18,000 but special appropriations increased \$60,000 or 85 per cent.

The net operating expense of the Institute was at the rate of just under \$6,000 per day (not including \$1,612 per day for research and payments for special purposes) as against \$5,444 per day the preceding year. Pro-rated among the 2,813 students in residence at the time of Registrar J. C. MacKinnon's official census (as of November 1, 1925) it was roughly \$769 apiece or \$93 more than during 1924-25. Academic expense came to \$472 per student, administrative expense to \$91, plant operation to \$132.

### *Investments*

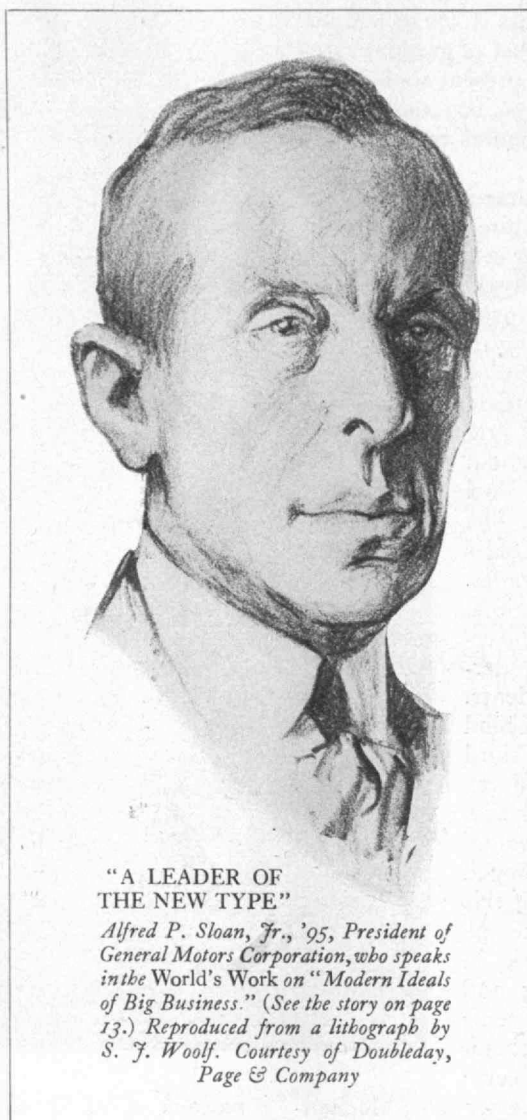
**S**CHEDULE H comprises thirty-five pages of the Treasurer's Report and all this space is needed to record in detail the investment holdings of Technology now valued at \$27,744,851.87, or \$699,140.71 more than on June 30, 1925. The net yield from "General Investments" (\$17,129,831.71 of the total) was 5.445 per cent during 1925-26 as against 5.46 per cent during 1924-25. The balance of the Eastman Kodak common stock, 12,500 shares remaining after the sale of 37,500 shares three years ago (See The Technology Review for April, 1923), produced a 10 per cent return and

this helped to maintain the yield as did the fact that many major items such as General Electric and United Fruit stocks were purchased and are carried at a book value far below the current market.

The Institute now has on its books 169 separate Major Funds and 49 separate Minor Funds, the latter established for various current and special purposes. Of the Major Funds all but nine have their investments "pooled", each individual fund sharing pro-rata in the income. Such an arrangement makes for safety, economy, flexibility and ease of operation.

The 27¾ millions are divided among five general classes of securities: 1. Government and municipal bonds, 11.40 per cent; 2. Industrial stocks and bonds, 24.85 per cent; 3. Public utility stocks and bonds, 30 per cent; 4. Railroad stocks and bonds, 23.65 per cent; 5. Miscellaneous, 10.10 per cent.

In all there are just under 600 separate investment items listed. During 1925-26 income was collected on all but 12.



## Dormitories

FROM Charles Hayden, '90, last year (1925-26) President of the Alumni Association, came the call to conference between the Executive Committees of the Corporation and the Alumni Association. From this meeting came the definite opinion that more than an auditorium, more than a new gymnasium *cum* swimming pool, more than anything else the two Committees could imagine, the Institute needed additional dormitories. A student body last year of 2,753, of which 1,519 were cared for by residence in fraternity houses or at home, and only 296 in existing dormitories, thus leaving a boarding house margin of 1234, lent force to the decision. The outcome was the Dormitory Fund Committee, and from it will come, presumably, now that the activities of the fall are well resumed, first funds and then dormitories to fill what is acknowledged a serious lack in present day Institute life.

The first fall report of progress was made to the Executive Committee of the Alumni Association on October 4, by Gorton James, '10, Chairman of the Dormitory Fund Committee. With the concurrence of Harold B. Richmond, '14, (Secretary); Henry F. Bryant, '87; Henry A. Morss, '93; Samuel C. Prescott, '94; Thomas B. Booth, '95; and Orville B. Denison, '11 (ex-officio), other members of the committee, Mr. James reported that, "Two classes have chosen committees and are actively engaged in the process of organizing to raise funds, each hoping to present one dormitory unit to the Institute. Furthermore, steps have been taken by Technology Alumni in three geographical sections of the country to give units to carry the names of the sections. The money is to be raised not only from Alumni but from other friends of the Institute. Other classes and other geographical sections also have similar proposals under consideration. If successful, these groups will provide at least five units out of the twelve that have been planned."

Said Mr. James further: "In order to keep this work going, to aid the special committees, to organize more of

them and to furnish the necessary impetus to make these efforts carry over, it will be essential to have some full-time central organization during the period of the campaign." To this end he announced that his committee had, earlier in the summer, requested from the Executive Committee of the Corporation authority and funds to employ a full-time manager of the campaign for several months, since no member of his committee could

then spare time for such activity. Up to the date of his present report, no final action had been taken by the Corporation Executive Committee "because of the absences of members of the Executive Committee and of the President during the summer months."

Discussion in the Alumni Association's Executive Committee followed the presentation of this report, and culminated in a vote which embodied the remark: "As the Alumni Association has no funds available for such purpose, its Executive Committee refers the matter to the Executive Committee of the Corporation."

## Pre-Medical

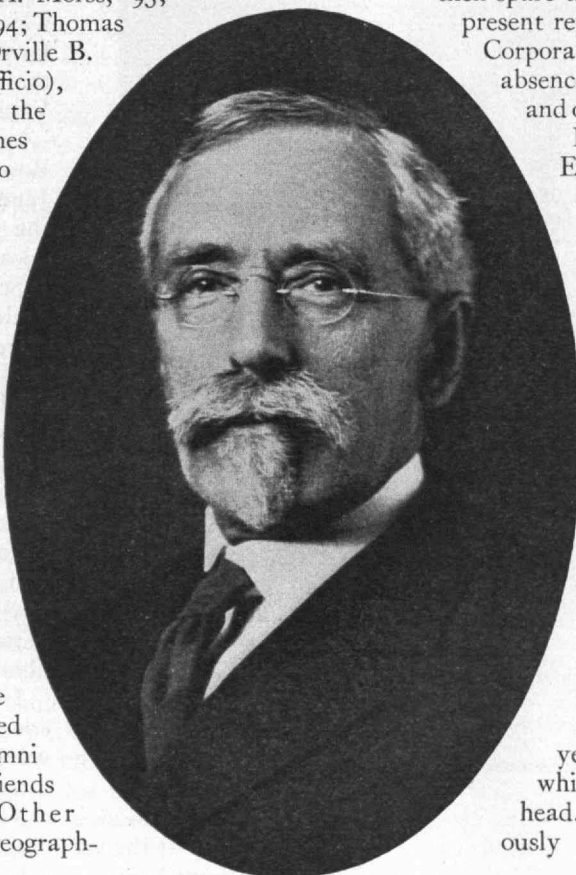
SINCE 1900 forty graduates of the Department of Biology and Public Health have utilized their training at the Institute as a stepping stone for entrance into one of the country's many medical schools. This number is a full thirty-five per cent of the total of graduates of the Department during that time, and gives the clue to a new departure this year in the activities of the Department of which Professor Samuel C. Prescott, '94, is head. Upon a more definite basis than previously a new division within it was organized for pre-medical instruction, and began operation last month.

"Modern medicine today utilizes more than ever before," declared Professor Prescott, "the basic principles and the advanced practice of biology, physics, chemistry and even of mathematics and statistics. Since medicine is increasingly dependent upon these sciences it follows that scientific training, with its discipline of logical



NEW COMMISSIONER

Procter L. Dougherty, '97, recently appointed by President Coolidge the Commissioner of the District of Columbia. See the story on page 16



HE WORRIES WALL STREET

William Z. Ripley, '90, who recently set the country's financial center by the ears. See the story on page 12



thinking must be of great value to the student in medicine."

No new subjects of instruction have been added to support the new division, but a re-assembly of the old will make for a course more logically planned to suit the entrance requirements of the Class A medical schools. General biology, zoology, comparative anatomy and physiology, general bacteriology, infection and immunity and public health laboratory methods will, with the regular scientific courses and general studies common to most other Institute courses, make up the pre-medical curriculum.

### Sperrylite

**R**ARE CRYSTALS of the richest known ore of platinum, sperrylite, were added to the Institute's geological collections last month as a gift of G. H. Beatty of Johannesburg, Transvaal, South Africa, through Professor W. Spencer Hutchinson, '92. They came from the Potgietersrust Mines in the new platinum field of the Transvaal and until the discovery of these mines two years ago sperrylite, the arsenide of platinum, had been found only in microscopic crystals.

The largest of the three specimens of the Technology collection measures ten millimeters in diameter and weighs 2.9 grams. It has the color of platinum with brilliant facets and rounded edges. The second in size is three millimeters in diameter, weighs 0.2 grams, and is considered a perfect crystal. The third is a splendid lustre crystal in the matrix in which there are stains of nickle with colorings of rich red in which appear fine lines of a jade green tint.

Other specimens of sperrylite were presented to the British Museum, where they are said to have created a sensation in geological circles. Sperrylite crystals are among the rarest recorded by geology, and although, as platinum ore, the Technology specimens have but a modest value, the perfect crystal formation renders them worth many thousands of dollars as museum pieces. They are carefully guarded.

### Station 1-XV

**I**NTERESTING data on short-wave radio communication has been gathered in research at the Institute's new field wireless station on the estate of Colonel E. H. R. Green at Round Hills, South Dartmouth, Mass. Among the important problems under

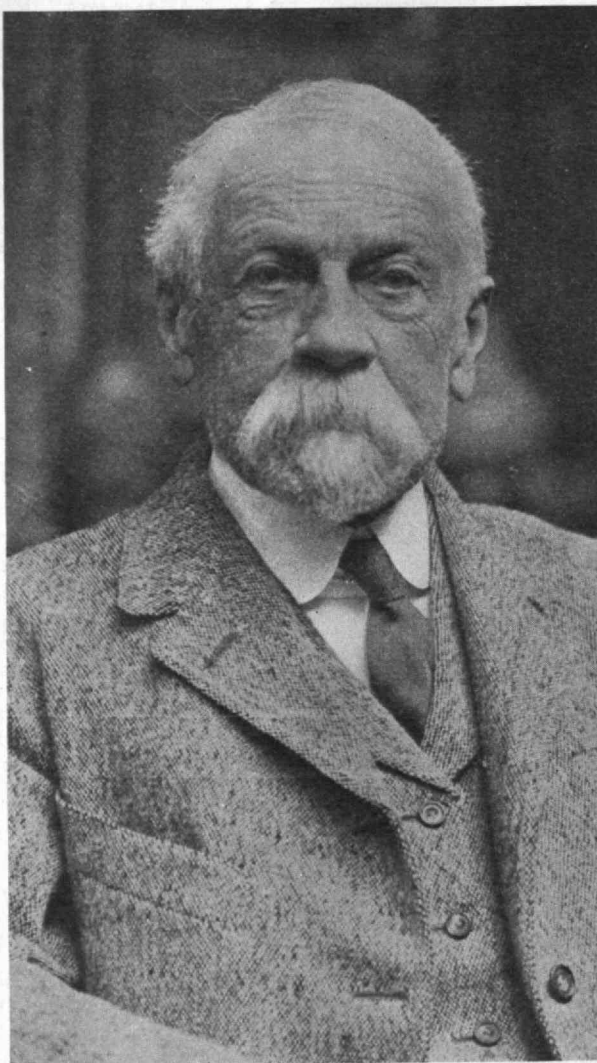
investigation at Station 1-XV, are those involving variation in signal strength between two fixed stations with the time of day and the weather conditions. Studies are also being made of the effectiveness of various types of transmitting antennae.

Colonel Green, whose generosity made it possible to carry on this work, recently provided additional quarters for the station and new antennae equipment. The research, which will be carried on for several years, is under the direction of Professor Vannevar Bush, Eng. D. '16; Professor Edward L. Bowles, S.M. '22, and James K. Clapp, '23, of the Department of Electrical Engineering.

So far it has been revealed that signals are more or less regular when the sky is clear, but weaken or entirely disappear when certain conditions of cloudiness are encountered. A widespread area of rain, which includes both transmitter and receiver, has generally been found to give better signals than those obtained in clear weather.

It has also been discovered that for short wave transmission to a fixed receiving station

there is a minimum wave-length beyond which signals disappear entirely at the receiving station. The point at which they disappear is called the "cut-off" wave-length, which in transmission over a distance of 75 miles varies between 32 and 50 metres for various times of the day. Commencing soon after noon, the "cut-off" wave is lowest during the afternoon, which is considered the best time of day for short-wave communication over short distances. It rises rather rapidly after sunset until the maximum value of about 50 metres is reached soon after midnight. From that hour until noon it decreases



DESMOND FITZGERALD

*Noted civil engineer, patron of the arts, long a member of the Institute Corporation, he died on September 22. See page 16 for an account of his life.*



slowly and fairly regularly, except for slight variations at sunrise. The lowest value of 32 for this distance is reached soon after mid-day.

Tests with various types of antennae are well under way. The equipment ranges from a small antenna mounted entirely within the station to a large exterior structure more than 100 feet in the air. A remarkable feature of short wave work is that signals may be transmitted over great distances without a large antenna. Station I-XV has been in regular communication with amateur operators in Europe, South America and Australia as well as North America, working on an antenna system consisting of two wires slightly more than 20 feet long and six feet apart.

### *Chemists Fore-gather*

**R**ELEASING intra-atomic energy, making ice cream out of crude oil, cracking coal oils for edible fats, chemically doing away with sleep, re-making the social-order by science, producing petroleum out of methane, developing supermen — all these things were forecast and discussed by Technology chemists at the Golden Jubilee of the American Chemical Society meeting in Philadelphia, September 5-11.

It was a notable meeting. In all over 400 papers were presented. Not only were there present eminent American men of science, but from foreign fields came other learned men to celebrate the remarkable progress of chemistry and its effect upon the world. James F. Norris, Professor of Organic Chemistry at the Institute, and President of the Society, led off the discussion in a most optimistic manner with predictions of the release of intra-atomic energy and the cracking of coal oils for edible fats. (See page 22)

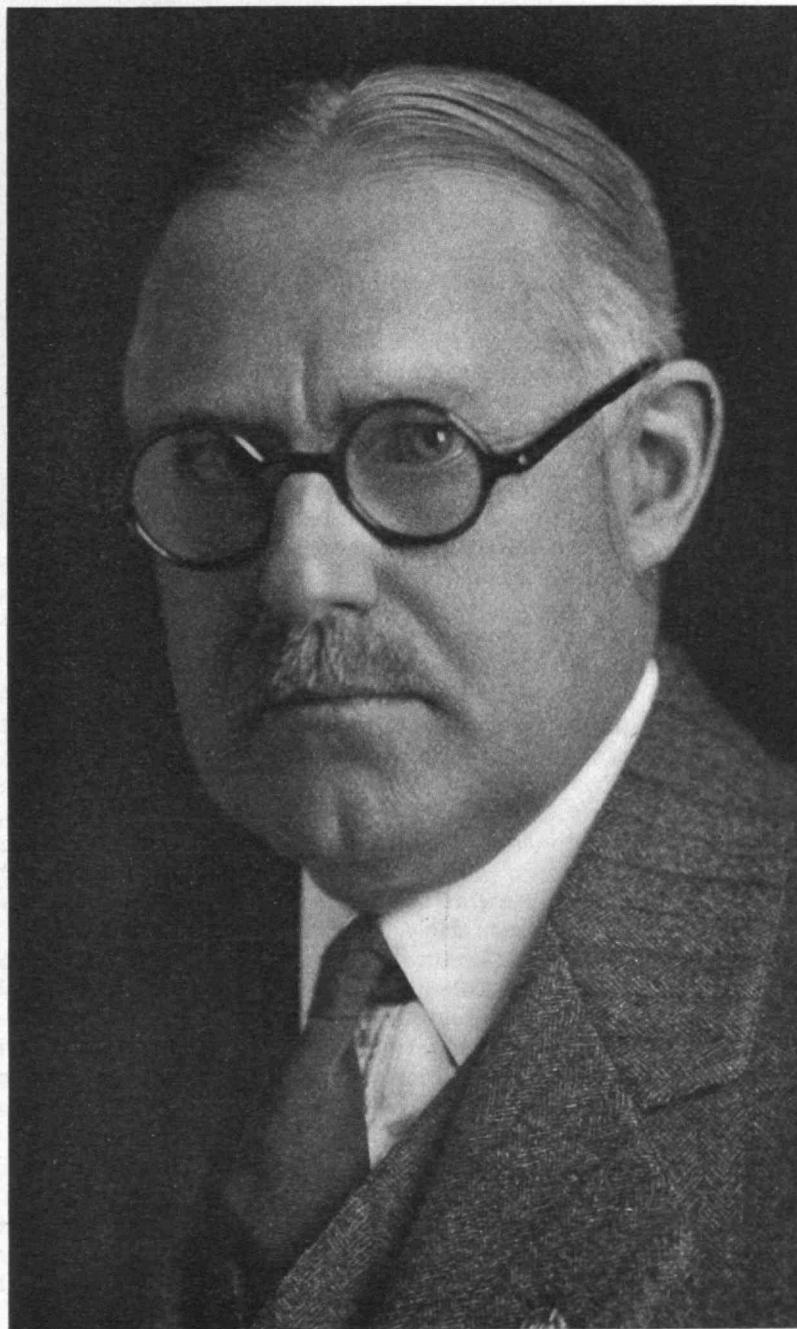
He told of a drop of colorless oil that had been formed from methane by Samuel C. Lind, '02, Head of the Department of Chemistry at the University of Minnesota. "That droplet," Professor Norris said, "meant a supply of combustible liquid to run our automobiles when petroleum is exhausted."

Irénée du Pont, '97, Vice-Chairman of E. I. du Pont de Nemours and Company, in the course of his remarks upon the dyestuffs industry strayed into the future to suggest:

"We know that some adults sleep more hours per night than others. It seems that this is due to some slight difference either of the nature of more quickly accumulated poisons which necessitate sleep for their removal or a less rapid elimination of these poisons by those who sleep less efficiently. Would it not seem also likely that the reactions may be hastened by some catalytic

agent or even that the antidote itself may be prepared and administered, thereby either decreasing the amount of sleep required or even doing away with the necessity of sleep entirely?" Further on he ruminated: "... may we expect that by injecting proper compounds we can make his [man's] character to order?" Thus out of the test tube might come a superman to suit a Shaw.

Professor R. T. Haslam, '11, of the Institute's Department of Chemical Engineering created comment by his paper on "Radiation from Luminous Flames" wherein he pointed out the additional heat that might be obtained in furnaces through the use of luminous flames rather than colorless flames. Ray P. Dinsmore,



LESTER D. GARDNER, '98

*User, this summer, of that modern magic carpet, the airplane, he flew 33,600 kilometers in Europe, and in 70 different planes met with no untoward incident whatever. See the story on page 13*

'14, Professor G. L. Clark, and John M. Bierer, '10, presented papers in a crude rubber symposium which was held largely due to the efforts of the latter. Eugene L. Chappell, S.M. '24, presented an interesting paper asserting that the removal of the rust film from the inside of tanks really shortened their life.

The lawn of the Priestley House at Northumberland, Penna., was the setting for the opening of the Golden Jubilee Meeting. It was there in Priestley's house, fifty years ago, that the American Chemical Society was founded. Tribute was paid, reverence expressed.

### Power

"THE successful completion of the problem of converting coal to oil will have a far-reaching political as well as an industrial effect," said Professor R. T. Haslam, '11, at the Conferences of the Institute of Politics held in Williamstown last August. "It is probably safe to say that the solution of this problem will have more influence on world peace than any disarmament conference yet held."

These predictions were made in a paper, "The Relation of Chemistry to the Development of Power," presented at the conference on the rôle of chemistry in world affairs. Professor Haslam pointed out that the big problem facing chemists and the problem that touches the economic welfare of the nation most intimately is that of utilizing our large supply of coal by converting it into oil. He reviewed the progress that had been made to this end and the remarkable results obtained by European chemists. In closing he pointed out that "even in the generation of power, the most mechanical phase of the whole process, we have seen that chemistry must be looked to more and more if we are to cease wasting three-quarters of all fuel mined even before the power produced leaves the generating station."

Conferences and round table discussions of science and the part it plays in world affairs were included for the first time this year in the agenda of the Institute of Politics.

### Sedgwick Lecture

THIS year, on July 27, at the Marine Biological Laboratory at Woods Hole, Mass., the Fifth Sedgwick Memorial Lecture was delivered by Thomas Hunt Morgan of Columbia University (Professor of Experimental Zoölogy; member, National Academy of Sciences, Royal Society of London, American Society of Experimental Biology and Medicine, American Society of Zoölogists, New York Academy of sciences; Fellow, A. A. A. S.). To hear his subject "Genetics and the Physiology of Development" sat an audience distinguished, learned.

For five years men of eminence in the fields of biology or public health have annually delivered these lectures which were established in 1922 in memory of William Thompson Sedgwick, noted biologist, pioneer in public health work and Head of the Department of Biology and Public Health of the Institute from 1907 until his death in 1921. In plan and purpose they may be aptly termed unique.

### "Limitless Obfuscation"

"AMERICAN business affairs are still too largely carried out in twilight," wrote William Z. Ripley, '90, Professor of Economics in Harvard University, and thereupon caused the September issue



FORMER DEAN BURTON REVISITS

*After an unbroken absence of five years, Alfred E. Burton, Dean for nineteen years, revisited Technology on October 13, saw new sights, heard new tales, revived old memories*

of the *Atlantic Monthly*, wherein he wrote it, to be quoted at \$2.00 per copy in New York. Few copies were available even at that figure. His statement he reinforced with names and figures in a fashion seldom seen, these timid days, in print.

To Professor Ripley, American business is at present guilty of "limitless obfuscation" in the publication of its balance sheets and income and expense statements. Too many corporations, particularly in view of their large diffusion of ownership, present statements to their stockholders of the "dance card" type, almost the sole worth of which is a reminder of "the parties of our youth." He names names. Royal Baking Powder, Gillette Safety Razor, American Tobacco, American Can, National Biscuit, Dodge Brothers, National Cash Register — these are but a few of the concerns whose financial reports are termed "monstrosities" or the like. But there are good words said too, to redress the balance, and these are for, among others, United States Steel, Dennison Manufacturing, American Locomotive, American Sugar and General Motors.

Despite the academic shades in which Professor Ripley strolls, he has the knack of arousing bedlam in business circles by a quiet word on what he considers a wrong. A similar, though by no means so vociferous a fracas he caused by an article, likewise in the *Atlantic*



Monthly, earlier in the year. And it is commonly reported that the at-the-moment dormant Van Sweringen merger was blocked primarily by objections which he pointed out. (See The Technology Review for April, 1926).

For the nine years from 1893 to 1902, Professor Ripley (who graduated from Technology as a civil

that their human relations, with their employees, shall be above criticism. The great modern corporations live, as it were, in glass houses, open to the public gaze, and of course no one who lives and works in such a situation can afford to be other than honorable, humane, and strictly obedient to economic law."

The sincerity of these words is well attested, it would seem, by the commendation for which the astute Professor Ripley singles out for General Motors Corporation. But with all the criticisms of Professor Ripley, Mr. Sloan is not, apparently, in accord, for his article ends on an optimistic note:

"Broadly speaking, I should say that the big corporation has justified itself, not only as an economic and efficient instrument for the production of goods, but also as a social force. It has corrected the evils that seemed years ago to be inherent in it, and as today conducted, it is a good employer, a good neighbor and a good citizen."

### *In Darkest Africa*

**G**EORGE EASTMAN, Kodak manufacturer and Institute benefactor, killed seven lions, a rhinoceros and a buffalo during a hunt in the African jungle which ended in September. In the party was the well known hunter, Pay Ayre, and Carl Akeley, explorer, taxidermist, inventor, scientist and clubman.

A newspaper report records an exciting episode during the hunt. Mr. Eastman, not content with the game already obtained, penetrated deep into the interior of the jungle with the principal objective of getting an elephant. A herd was encountered and the party prepared for action. Mr. Eastman stood with aimed rifle intent upon felling a bull elephant in the distance, when, seemingly from nowhere, a rhinoceros charged. By a scant two feet he missed the hunter. The shot was spoiled, out of the *cul de sac* the elephant herd escaped into impenetrable cover. But the hunter was safe.

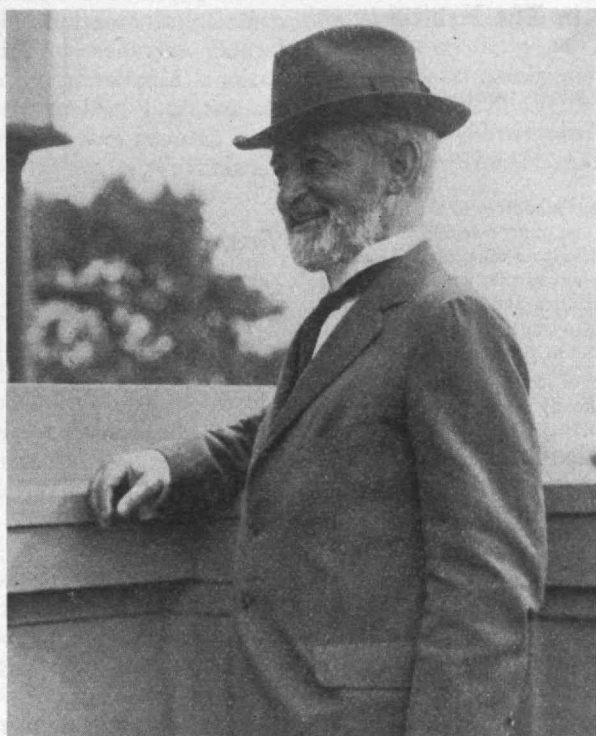
The expedition brought back a comprehensive collection of buffalos and an extraordinarily good specimen of eland. Part of these will be received by the Clark Studios of New York. The others will go to the Ward Museum for mounting.

At the end of the trip at Nairobi, British East Africa, Mr. Akeley experienced a nervous breakdown due to overwork, but Mr. Eastman carried his seventy-three years with remarkable endurance and vitality.

### *Magic Carpet*

**B**Y TRAVELLING 33,600 kilometers in 70 planes of 25 different types and one airship during 234 hours, 49 minutes in the air, one ought to have found out as much about the country traversed as if he went over it in the 938 hours it would take in the fastest express trains. These figures are extracted from the air log for last summer of Lester D. Gardner, '98, President of *Aviation*. His remarkable tour began on April 1 when he left London for Paris after a 17 kilometer warm-up flight at Croydon on March 30.

He covered the 379 kilometers to Paris in 4 hours and 20 minutes in a Handley Page of the Imperial Airways



AND PROFESSOR TYLER ACTS AS CONVOY

*The Head of the Department of Mathematics photographed with Professor Burton just prior to the meeting of the Faculty Club at which the former presided, the latter spoke*

engineer) was a member of the Institute Staff, holding, when he resigned, the title of Professor of Sociology and Economics.

### *"Open to the Public Gaze"*

**L**ESS critically, more positively, another Technology man commits himself in the public prints on the same topic wherewith Professor Ripley fired the powder train. Alfred P. Sloan, Jr., '95, President of the General Motors Corporation, in the course of an article on "Modern Ideals of Big Business" in the *World's Work* for October, asserts:

"I have enlarged on this habit of constantly telling our stockholders and the public about things they have a right to know, because it goes to the heart of the modern ideal of business. That ideal demands frankness as one of the first characteristics of management. And of course that implies things even more important. It requires that the corporation shall be of such a character that frankness cannot injure it — that it must be in a legitimate business, that it shall manage that business honorably in every detail, that its structure and purposes and methods shall be so economically sound that general knowledge of them shall have no power to alter their character or to injure their operation. It implies



and liked the trip so well he went back over it to London in a Farman Goliath by another line in 1 hour and 48 minutes less time. He then flew to Cologne, Amsterdam, Copenhagen, Berlin, Vienna, and way points. On May 20 a Vickers-Vimy of the Royal Air Force picked him up at Heliopolis and on June 2 an R. A. F. single-engined Bristol set him down at Cairo. Meanwhile Ziza, Baghdad, Mossul, Alexandria and Aboukir were among the ports of call. Back again in Europe, after dropping in on Rome, Bucharest, Dresden and Moscow, southward he returned to the Mediterranean. This time he crossed it twice by air — Toulouse to Casablanca, Oran to Alicante. London, the official end of the tour, was reached on July 20.

In all, Mr. Gardner flew on 53 days and the 110 different engines used by his 70 planes and an airship did not fail once while transporting him at an average speed of nearly 90 miles per hour over a distance but a few thousand miles less than that of the earth's equatorial circumference.

### N. A. A. Presidency

**W**ITHOUT opposition Porter H. Adams, '14, was elected President of the National Aeronautic Association at Philadelphia on September 9. He succeeds Godfrey L. Cabot, '81, who, together with Donald Douglas, '14, designer of the planes used in the Round-the-World flight of 1924, were chosen Governors-at-large. During the past year Mr. Adams has served as Chairman of the Executive Committee and assistant to Mr. Cabot. His association with Mr. Douglas dates back to undergraduate days when, as co-workers in the first of the Institute's wind tunnels, they cherished the joint dream of some day building a plane and flying it around the world.

From that day on scarcely a man or organization interested in aviation, particularly in New England, but has been aided by his advice and active coöperation. Said the *Transcript's* aviation editor, "Adams is the efficient Pooh Bah of modern aviation societies. . . . He has been Chairman of the Boston Municipal Air Board since its organization. . . . He is President of the Aëro Club of New England, Vice-President of the Aëro Club of Massachusetts. . . . Vice-President of the Naval Aviation Association. . . ."

"Gifted as a speaker and writer, favored by his financial surroundings, Porter Adams has been the Prince Charming of post-war aviation in New England. His enthusiasm, generosity and intelligent activity have

made him one of the most useful figures in the expanding era of American commercial aviation. His formal entrance on the national aviation stage as N. A. A. President presages an even greater service ahead."

### Trans-Andean

**O**N SEPTEMBER 2, Lt. James H. Doolittle, S.M. '24, who may also be properly addressed as "Dr. Doolittle" since, in 1925, he received the fourth Doctor of Science in Aëronautical Engineering given by the Institute, became the first American aviator to accomplish a non-stop flight over the Andes from Santiago in Chile to Buenos Aires in the Argentine. He had just two gallons of gasoline left after completing the 730 miles in six hours.

Followers of aviation were not surprised to note his latest triumph, for less than a year ago, he won the Schneider Cup Race at Baltimore and established a new world's seaplane

record. (See The Technology Review for December, 1925.) They were interested in his trans-Andean journey because three days after his arrival in South America he fell off a twelve-foot ladder and broke both ankles but, instead of discarding plans, merely had the ankles set and hopped off for Buenos Aires the next day with the results noted above. Unfortunately, due to his haste or to the unskillful South American surgeons, Lt. Doolittle is now convalescing in Walter Reed hospital in Washington where both ankles were re-broken, re-set.

### Air-Flivver

**A**N AIRPLANE whose wings measure twenty feet from tip to tip, weighing about 325 pounds, its twenty-five horsepower engine capable of a speed of 100 miles per hour — that is the "flying flivver" designed by Otto Koppen, '24, the experimental model of which Henry Ford exhibited at his Dearborn shops on the occasion of his sixty-third birthday last July.

## Twenty-five Years ago in The Review

Issue: October, 1901

The studious reader of back files notes with interest the items which appealed to the news sense of The Review Editors twenty-five years ago:

**F**RONTISPIECE: Pictures of the Technology Club of Boston at 83 Newbury Street. The charge for a room is one dollar a day. There are 601 members.

**C**LOSING words of President Pritchett's address to the new men, the Class of 1904: "I beg to assure you of my own desire to share your confidence and your friendship. There is no work which I can do in the Institute of Technology so important as that which brings me in touch with your life and your difficulties and your aspirations. You can do me no greater pleasure than to come to me for a word of consultation and advice, and to admit me to your friendship."

**R**EGISTRATION: "The registration of students for the new year is beyond all anticipation, being already in excess of 1400, — an increase of about 150 over last year."

**F**ACULTY NOTES: Professors Henry P. Talbot, '85, and Harry M. Goodwin, '90 have spent the greater part of the summer in Europe. Professors Dana P. Bartlett, '86, Arthur A. Noyes, '86, Louis Derr, '92, and Mr. Ralph L. Lawrence, '95, have explored Japan, joining forces in part with the eclipse expedition returning from Sumatra. Professor William Z. Ripley, '90, has been appointed lecturer in economics at Harvard.

**A**PPPOINTMENTS: Professor Henry P. Talbot, '85, as Head of the Department of Chemistry. Captain William Hovgaard, of the Danish Navy, obtained as a professor of naval architecture. Other appointments: Assistant in Geology, Frederick G. Clapp, '01; Instructor in English, Henry Latimer Seaver; Instructor in Physics, William J. Drisko, '95.

**E**DITORIALS: One deplores the assassination of President McKinley. Another comments on a contributed article making a plea for a broader view of the profession of teaching. The elaborate plans for the new Carnegie Institute of Technology are discussed.

**A**THLETICS: "Football at the Massachusetts Institute of Technology has been abolished for this year, and probably forever. The students so voted at a mass meeting held October 9."

Concerning Inventor Koppen, Mr. Ford said to a party of newspaper men: "That young chap just went into a room by himself with one of his friends here in the shops and in no time at all he had the plane ready and had built it. . . . There may be a lot . . . who later on will say that they had a hand in designing this airplane, or something like it, but I know that this young chap did the entire job from start to finish. It's his and no one's else. I want him to have all the credit. . . ."

At the moment Mr. Ford was not ready to announce that these baby planes are to be soon produced in quantities but he added significantly, "I see a great field for this type of airplane. . . . They can be produced in great numbers and cheaply."

### Bites

"IT ALL DEPENDS upon the mosquito," replied Philip K. Bates, '24, graduate student in the Department of Biology, to a query propounded at a recent meeting of the Anti-Mosquito Association of Massachusetts. The query was: How far can a mosquito fly? The answer: It all depends upon whether it is a salt water or a fresh water anophelinae.

Tests have convinced him that fresh water mosquitos have a cruising radius of one mile. Perigrinations of the salt water variety, however, are so mysterious that modern science knows little about them. It does know something about the flying technique of both varieties; they are not aggressive insects because they always hook a ride on the wind when they set forth for new regions. Upon the rise of a favorable wind they presumably draw in their antennae, set their femurs, elevate their apical segments, and betake themselves where the wind goes. This, Mr. Bates sagely observes, is a blessing to New England because the prevailing winds along the Atlantic are southwest and blow the mosquitos, willy-nilly, to a watery grave.

### Cold Weather?

WITH THE publication of government crop reports prices frequently shoot skyward or drop giddily. Time may come when the issuance of seasonal weather reports by the government may have a similar effect. Exchanges may be thrown into pandemonium or into delirious joy by prognostications of a weather bureau over next winter's temperature or next year's sun spots.

Omens of such a situation were apparent in recent news dispatches. At the Thirteenth Annual Business Conference held at Babson Park, Mass., in

September a weather forecast for the coming year caused business men to listen attentively. Some viewed with alarm the prophecy of a cold, rough winter. Others chuckled. It all depended upon how their particular business was affected by the weather.

Radio men chuckled. Greenleaf W. Pickard, '00, Boston consulting engineer and radio inventor held that the coming winter, cold as it may be, would be an excellent one for radio transmission. Stating he was presenting for the first time a definite relation between solar activity and radio reception, he asserted that we are "passing through a sun spot maximum" such as occurs about every eleven years. Solar activity may be expected to decrease in the next few years. Radio reception conditions will improve. "The radio industry," concluded he, "is already a large one and the poor reception of last winter was reflected in diminished sales of apparatus. With better radio weather in prospect this winter, sales should increase. A volume of business measured in million dollar units may thus depend upon whether there are spots on the sun."

Sometime later, Willard E. Freeland, Assistant Professor of Marketing at the Institute, echoed the above cold weather alarm in discussing, at Amherst, Mass., future business trends. He stated that the weather forecast had come true in every regard so far this season; emphasized the weather as a dominant factor in sizing up the business situation.

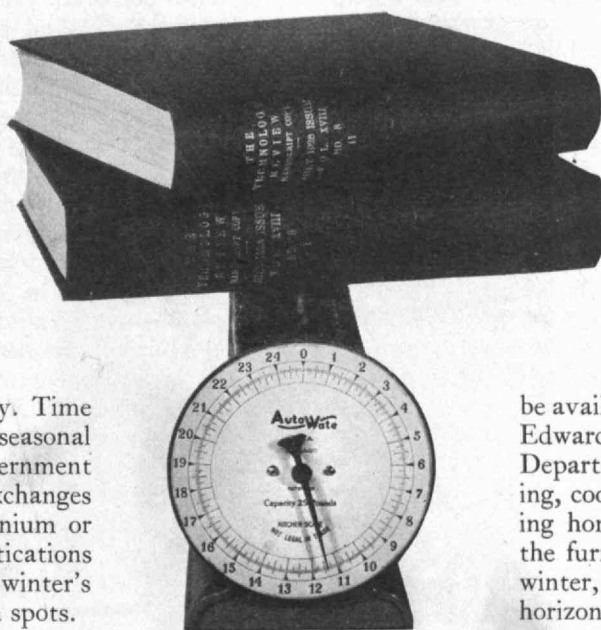
These incidents, then, hint of the future when the weather man may hold the open-sesame to next year's sales quotas, next winter's gross clothing business, or next summer's volume of tourist traffic. Certainly if this winter turns out to be, as forecast at Babson Park, "one of the severest ever known on the North American Continent" and, if "1927 is a year without a summer," some business men will be alarmed and others will snort with glee.

### Millennium

HOWEVER, should the above forecast prove erroneous, relief from the wilting warmth of next August's dog days, will

be available, for, according to Professor Edward F. Miller, '86, Head of the Department of Mechanical Engineering, cooling plants as efficient in keeping homes comfortable in summer as the furnace is in providing warmth in winter, are lurking just beyond the horizon of the harassed householder.

To be sure, such equipment is fairly common in large buildings and a few dwellings are now artificially cooled, but he speaks of a compact and not too



### HEAVY READING

Recall *The Technology Review* for last July. Here is the original manuscript copy for that issue, bound into the bulky tomes you see. Cold type reduced eight hundred manuscript pages, weight eleven and one half pounds, into a *Review* of eighty pages, weight three quarters of a pound



expensive plant for the modest dwelling. Machines that can be tucked away in a corner of the basement to function at the click of a thermostat when the day waxes warm and the locust starts his song, may be expected.

Says Professor Miller: "Air conditioning and cooling equipment is best adapted for buildings of special construction with ducts for distributing the cool air, and insulation to prevent leakage of heat from the outside. Instead of opening all doors and windows as is now done in an effort to keep cool in summer, they will be closed. Double windows may be used, and the air will be circulated over and over again after washing and cooling. The home air conditioning plant of the future will function with no more attention than the modern electrical refrigerator. It will be operated by electricity and will be controlled by a thermostat to maintain an even comfortable temperature regardless of the heat outdoors."

### *New Commissioner*

**F**ROM White Pine Camp in the Adirondacks last summer announcement of at least one appointment which seemed to please all interested parties was made. This was early in August and the appointee was Proctor L. Dougherty, '97, to the Board of District Commissioners of the District of Columbia.

Three Commissioners comprise this Board and in their hands rest the administration of the voteless District. While Congress formulates all the laws, these three men must see that the laws operate effectively. In short, they constitute the executive body.

Mr. Dougherty has always been active in civic affairs. After graduation he joined the staff of the supervising architect of the Treasury Department, becoming in turn assistant inspector and then inspector of electric light plants. In 1910 he left the government to go with the Otis Elevator Company of Washington. At the time of his appointment he was executive representative of the Vice-President in charge of all business done with the Federal Government. As officer of the Chevy Chase Citizens' Association, as a delegate to the Federation of Citizens' Associations, and as member of the Citizens' Advisory Council of the District, the new Commissioner has logically attained municipal leadership.

### *Three Deaths*

**D**ESMOND FITZGERALD, engineer, patron of arts, in seniority fourth among Life Members of the Corporation to which he was elected in May, 1889, died

at his home in Brookline, Mass., on September 22. He was born May 20, 1846, educated at Phillips Andover Academy and, after several years' experience in railroad work, in 1872 entered upon his life-time profession as an hydraulic engineer by taking up the study of the sources of water supply for the city of Boston. In 1899 he did important work as chief engineer of the special commission upon the Chicago Drainage Canal and in 1904 he served as consulting engineer on the water supply and sewerage systems of Manila, P. I.

Mr. Fitzgerald's love of art found expression in his establishment in 1913 at his home in Brookline of the Fitzgerald Art Gallery in which he gathered a notable collection of the works of early French impressionists — Monet, Sisley, Pizarro and others — of Dodge MacKnight and fine examples of American, Korean and Chinese pottery.

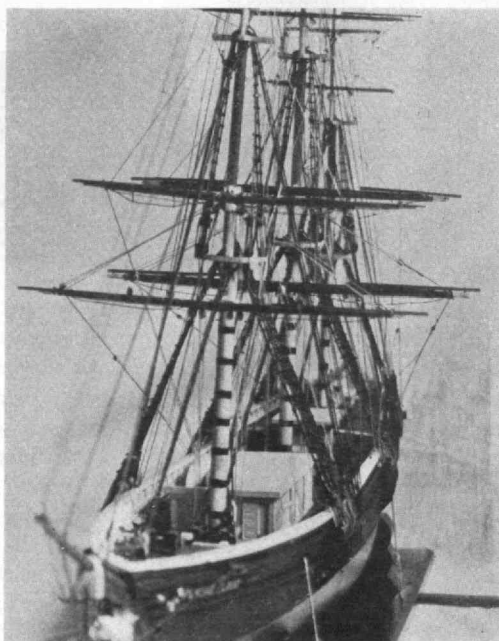
In addition to being a fellow of the American Academy of Arts and Sciences he was a past President of the American Society of Civil Engineers, the Boston Society of Civil Engineers and the New England Water Works Association. Two years ago the American Society of Civil Engineers conferred honorary membership upon him.

Professor-Emeritus Francis Ward Chandler, for twenty-three years (1888-1911) Head of the Department of Architecture, died at his summer home at North Haven, Maine, on September 8, aged eighty-two lacking less than a month.

His connection with the Institute dated practically from the beginning for, in 1869-70, he was engaged as assistant to Professor William R. Ware who was then in charge of the Department. Except for an interval during which he was successively Assistant Supervising Archi-

tect of the Treasury Department at Washington, a practicing architect in the firm of Cabot and Chandler, a traveler abroad for two years with Robert S. Peabody and Charles McKim, his association with Technology was interrupted.

When appointed Head of the Department in 1888 there were but seventy-five architectural students registered and only eight were candidates for the degree, the rest being attracted by a two-year partial course devoted almost entirely to design and freehand drawing. Professor Chandler abolished the partial course under the conviction that two years was far too short a time in which to give adequate preparation for a professional career. Under his leadership the Department of Architecture, which had been the first school of architecture established in this country, was among the first to establish



**FLYING CLOUD: A SCHOLARSHIP**

*This remarkable replica of the famous clipper Flying Cloud won for Albert F. Bird of Somerville a four year scholarship at the Institute awarded by the Youth's Companion*



successful graduate study, and its registration at the time of his retirement numbered 113.

Henry Beecher Wood, '76, since 1923 a member of the Alumni Council as a representative of his Class died, September 28, at his home in Woburn, Mass. His entire career he devoted to public works engineering. Shortly after graduation he entered the services of the Federal Government as a surveyor in the Mississippi River developments. Returning to Boston in 1885 he entered the city departments and planned street changes and park developments, and served the water and sewer departments, and for six years was executive engineer in charge of seven consolidated city departments. Later as an engineer for the Commonwealth of Massachusetts he took a prominent part in the Taunton inland water route and in the Mt. Tom project. He was a member of the American Society of Civil Engineers and the Boston Society of Engineers.

### "Crystal-gazer, bulldozer"

THE ABOVE words, brave words, were flung at the head of Boston Mayor Malcolm E. Nichols in early summer at an indignation meeting held in the Old South Meeting House. Dr. Samuel M. Crothers, Minister of the First Parish Unitarian Church of Cambridge, flung one. James P. Munroe, '82, Secretary of the Institute Corporation, and (among many other offices) President of the Twentieth Century Club of Boston, took a firm stance, measured his distance, stiffened his forearm, and flung the other.

The meeting was called by representatives of the Old South Association to discuss the question "Free Speech: How Free May it Be?" It was designed to bring to a head the controversy that had been precipitated after Mayor Nichols had given several examples of his apparent intention of continuing ex-Mayor Curley's policy of forbidding Old South and other assembly halls to shadowy persons listed by the *Boston Transcript* as "certain speakers." (Despite this circumlocution most *Transcript* readers probably inferred that that against which Mr. Munroe and Dr. Crothers, together with Dean Roscoe Pound of the Harvard Law School, were inveighing, was the suppression, a short time previously, of meetings centering around Scott Nearing and Anthony Bimba.)

Mr. Munroe, being introduced by Chairman George W. Coleman, was first speaker.

"George III is dead," said he, "but a greater tyrant sits in the City Hall of Boston." He told of letters of protest that he had sent to Mayor Nichols on this subject of repeatedly throttled free speech, and of the failure of Mayor Nichols to reply. He was used, he asserted, to receiving answers to polite letters, and whereas a third letter had finally drawn a response, he had not yet succeeded in translating it into the English language.

Mr. Munroe charged that the mayor tells the citizens when and where they may meet and what they shall say. "George III never dared to say that. I am no sympathizer with the Ku Klux Klan but its members have the right as citizens to tell us what the Ku Klux means. A lot of people believe in birth control; a lot

don't; each has a perfect right to say what he believes on a disputed subject. I don't know much about Bimba. On the chief charge against him he was acquitted. But how can City Hall know in advance of a meeting what the speaker will say about Bimba?

"In the previous and in the present administration City Hall has announced that it will decide in advance what speakers are going to say and, in its omniscience, will make it impossible for them to say it, by closing to them every licensed hall.

"This is tyranny beyond anything conceived by George III's stupid ministry. No decent citizen defends real blasphemy and genuine sedition, no one approves incitements to riot or to overthrow the government. But the police powers are ample to take care of such situations. If a speaker begins to blaspheme, or to utter sedition, or to incite to rioting, the police can, and will, step in and clap him into jail. But for City Hall, in its marvelous wisdom, to decide that at a certain meeting I am going, or may be going, to be blasphemous or seditious, and, on the strength of that impossible foreknowledge, to deny me a place in which to speak, is preposterous. If it weren't so serious, it would be comical.

"Moreover, knowing that it has no real right to deny a licensed hall to any man, on the ground that he may say something contrary to established laws, City Hall resorts to subterfuge. It doesn't say openly that John Smith can't speak in such a hall because City Hall, through some process of crystal-gazing, knows that he is going to be blasphemous or seditious. Oh, no. It decides that the hall in which Smith is announced to speak is a fire trap, or hasn't exits enough, or invents some other subterfuge — it sends its officials round to lock the doors against Smith. But those doors promptly fly open as soon as some friend of City Hall wants to give a talk there. Apparently City Hall doesn't care if its friends burn up."

For peroration, Mr. Munroe urged a more critical attitude toward governmental assumptions of infallibility and the formation of a Town Hall Society to safeguard the seriously threatened liberty of free speech.

The *Transcript*, in reporting the event, seemed somewhat at a loss to account at the same time for Mr. Munroe's own conservative politics and his love of fair play. It made one despairing attempt to reconcile common sense with editorial policy: "Applause was frequent when irony found words describing the theory of constitutional rights of citizens on free public assembly for discussion, but after the meeting, on the sidewalk on Washington Street, several of the groups which gathered there voted the entire meeting a 'talkfest.'"

### Varia

MUCH OF IMPORT to Technology men happened during the summer just past but sufficient space for the telling is unavailable. Adequate treatment would require several pages of pica type and at least nine half tones to cover certain of the news highlights of July, August and September of 1926. For brief note a few have been selected.

Early July saw the announcement that Edward

Dean Adams, '69, John Fritz Medalist for 1926 (See The Technology Review for March, 1926) had given \$100,000 to the Engineering Foundation and the Engineering Societies Library. Likewise, during the month Hiram P. Maxim, '86, allowed it to become known that he was working on an industrial silencer to bottle up street sounds, screaming traffic horns, rattle of early morning milk wagons and trains; "to shine silence upon you by the mere pressing of a button." Since this came from the lips of the man who already had been able to take the noise out of a gun explosion and to silence huge compressors and engine exhausts, the idea did not sound so fantastical to the press.

In August was scheduled the departure for the World Peace Conference at Basle, Switzerland, of Oscar C. Merrill, '05, official delegate of the United States by appointment of President Coolidge. On August 5 came the announcement of the naming of Harris E. Dexter, '12, as chief of the electrical division of the United States Department of Commerce.

September saw two more personnel changes, this time in industry. Elisha Lee, '92, President of the Alumni Association, was elected to the newly created position of Vice-President by the directors of The Pennsylvania Railroad on September 15. Previously Mr. Lee had been for some time Vice-President in Charge of Operation. And during the same week Charles Edison, '13, succeeded his father, inventor Thomas Alva, as President of the various Edison industries. Said an announcement: Mr. Edison Sr. wished to relinquish administrative duties so as to spend more time in his laboratory. Therefore he became Chairman of the Board turning over the Presidency to son Charles. Immediately the new President predicted that there soon would be available a phonograph record which would play for forty whole minutes, twenty per side.

### *White Plague*

**M**ORTALITY from tuberculosis among whites in Boston is greater than among whites in nine other large cities east of the Mississippi River and north of Missouri. This is true even to a more striking degree for the colored component of the population of these cities.

So finds Professor Murray P. Horwood, of the Department of Biology and Public Health after a statistical analysis of tuberculosis made as part of his study for the Boston Tuberculosis Association. He believes that the reason for the higher mortality rates from tuberculosis among the whites in Boston is due to the large proportion of Irish and Canadians of Irish origin, since these groups are particularly susceptible to this disease. A comparison of the mortality rates from pulmonary tuberculosis for those whose mothers were born in Ireland as opposed to those whose mothers were born in the United States, shows that for the years 1900, 1910 and 1920, the death rates from pulmonary tuberculosis among the former were three or four times as great as the rates which prevailed among the latter.

The analysis of the death rates from pulmonary tuberculosis in Boston by wards shows that Ward 13, where in 1920 lived 21.7 per cent of all the negroes in

Boston, as well as a large number of Irish and Canadians of Irish descent, has a higher mortality rate than any other ward in the city.

Curiously enough no correlation could be established between overcrowding and high mortality rates from tuberculosis. The North End, where overcrowding is probably most pronounced, shows a comparatively low death rate from tuberculosis, while many other wards in the city, where overcrowding was absent or less pronounced, show high mortality rates from tuberculosis. These wards were populated invariably by Irish, Canadians of Irish origin, or negroes.

The analysis also demonstrated that females between the ages of five to twenty-nine have higher mortality rates from tuberculosis than males in the same age groups. After that, industry begins to take its toll among the males, for the situation is completely reversed until three score years and ten and even beyond.

### *Shining Hours Improved*

Professors work from sun to sun  
But Major Smith is never done.

**T**HE old saw readily takes the new edge. In summer the President may go Iceland, the Corporation to Newport or Bar Harbor, the Faculty to the Four Winds, the students to Paris on a cattle boat, but with no effect, other than stimulation, upon Major Albert Samuel Smith, Superintendent of Buildings and Power. Always, when students and faculty return, it is to an Institute redecorated, replenished, refurbished, swept and garnished. The Major sees to it.

The accomplishments of the past summer comprise approximately equal parts of horticulture and highway engineering. Two blades of grass now grow in spots where one or less grew before; great new arteries of travel pulse with commerce where once a meandering cow path went its lymphatic way.

The chief task of the summer was the reconstruction of the roadway upon which The Review's editorial window gives, and which, passing behind the dome, swings around Building Eight for the river. Until the active Major found his chance this was a casual path, and, behind Buildings Four and Ten in particular, little more than a ribbon of oil soaked sand. Not so now. Aggregate, sand and Tarvia make it now a formidable thoroughfare, flanked on either side by concrete curbing beyond which stretches a brave expanse of grass.

Nor is this all. Between Building Two and Walker Memorial now runs a virgin concrete walk (Technology's Salt Lake cut-off), located, unlike its cindered predecessor, a safe height above mean low tide. Scows and hip boots will no longer, the Major guarantees, be essential to the safe journey at lunch hour on a rainy day. Here, in itself, is enough accomplishment for any man's summer.

Still the Major persisted, and one by one, the forces of nature gave ground in face of his attack. Eight enclosed squash courts he reared. Two concrete tennis courts he built, and two of asphalt. Eight acres of the "new" land west of Massachusetts Avenue he levelled. Untold gallons of paint he atomized upon the long



corridors, deftly and thoughtfully patching plaster cracks beforetime.

But perhaps one of the most picturesque of the Major's summer activities could be better immortalized in a painting by Millet than in this cold prose. The title would be, perhaps, "Haying in the Great Court." Throughout the summer the razor came not upon it, despite the Major's usual rigor in these matters. A rank growth sprouted sparsely through the pebbles—flaunting green and some five inches in height, except upon the site whereon oil from past Technique Rushes had embalmed the land. Upon that space, the verdure stretched a foot aloft, and of color was a bright vermillion. Four, five and six weeks the Major waited, until the Great Court was like a valley so thick with corn that it did laugh and sing. Then with a scythe the Major's men went forth, and gathered in the harvest, now thriftily put by, beyond a question, in some dark hayloft. And his enemies were confounded.

## Editorial Comment

### *Variation on a Theme*

That a certain uneasiness lurks in Institute corridors, that a vague sense of an impending crisis is insinuating itself into local minds should, for honesty's sake, be recorded. To the attentive observer it would appear that the Institute is growing self-conscious, that it is acquiring ever so slightly an inferiority complex. To the clinical attendant it is known that symptoms of this are more pronounced when the yearly report of a registration drop is noised abroad and impinges uncomfortably upon our senses.

The conclusion comes obviously, inevitably. Despite the unctuous unconcern of some and the glib and neatly phrased explanations of others, decreasing registration, year after year, induces in the ranks of Institute personnel unmistakable undercurrents of apprehension and solicitude. An informal, *pianissimo* anxiety it is, to be sure, but one that is no whit the less genuine and prevalent.

It would seem that if this continues the time will approach when it will become the dismal fact of a diminished prestige. No amount of sophistry, no use of stock and stencil explanations, no deliberate disregard of conditions can side-step the fact that the dearth of applicants for admission precludes any discriminating choice of new men to whom our gates are opened. Because there is no alternative, the admissions office has not been able to judge or choose such as do some neighboring institutions. The need is for courage to admit that the situation is an unhealthy one. Once the condition is so realized, it will be easier to proceed to a cure.

The future of the Institute is not too occult a matter for beneficial consideration. The time certainly is at hand for determining which way the wind is blowing. The Institute, for a long time, stood nearly alone in its special field. Has the entrance of state universities of almost negligible tuition fees into this field made it necessary for the Institute to advance another step ahead to hold its specialized and unique leadership? Johns Hopkins,

always a pioneer, proposes to abandon its two lower classes, and adopt a "senior college" plan. Here at Technology, graduate students are increasing in per cent of the total student body. Its upper classes, augmented by college transfers, are larger than the lower ones. Already we recognize honor students in the upper years of certain departments and grant them graduate-student freedom. Are these things omens of Technology's inevitable trend towards a Johns Hopkins organization or even a graduate school? Would the adoption of such a policy retain for us our unique and strong appeal in technical education? Or shall we continue as now in direct competition with hundreds of other schools, trusting that a greater plant and a more diligent and forward educational policy will offset the lower tuitions of many other technical and State institutions? And what about our own tuition policy concerning which the Report of the Treasurer for 1925-26 has something to say in this issue?

These cogent questions, are part and parcel of the registration problem. Such are the contending forces of the situation which all seem to sense vaguely. Complicated and obtuse a problem it surely is, and it is becoming imminent. The earlier it is definitely solved, the earlier will inferiority complexes born of apprehension and solicitude cease.

### *The Proof of the Pudding*

Percy Marks, sometime instructor in English at the Institute, but better and more appropriately known as the author of "The Plastic Age," had at the product of our American colleges in a polemic entitled "The Pestiferous Alumni" in the issue for July of *Harper's Magazine*. The reaction can easily be imagined. There came this provocative article, and there came immediately on it, the summer suspension of publication to clap a hand over the alumni editorial mouth and stifle its outcry. Now, with the fall, the editorial lungs have cleared themselves, and, as could be well foreseen, the plaint that has gone up in the ninety odd journals of alumni "opinion" has been steadily increasing in volume and iteration. There is no question but that Mr. Marks, as seems to be his custom, went off once again at half cock, and drew up an indictment against a whole people in none too workmanlike a fashion. Most of his article is dictum—unsupported by facts, figures or documents. It is not that his supporting evidence was unconvincing; it simply was not there. A more practised muckraker would have paid better attention to his secondary defense. Names, dates and places, in this age of journalistic frankness, are quite acceptable, if you are skillful enough to have them at your finger tips. Mr. Marks, it would seem, was not.

Under the circumstances, we need not bother with him too much. If someone of the calibre of Messrs. Mencken or Villard decides to go for us as a class, then it will be time to take thought.

With this salvo we leave Mr. Marks, having intended at first to touch upon him only at a tangent. Our *leit-motif* is another, a corollary matter. It is a desire to defend the Alumni, not from a Marks rampant, but from alumni magazines.



Even the most practised analyst will have trouble in the attempt to generalize on the Alumni Mind. Alumni are not of one economic class, like plasterers, or international bankers. They are not of one mind, like Theosophists or Single-Taxers. They constitute, perhaps, the most diverse group of people who could conceivably be gathered together under one banner, bating only a Chinese army. Under the circumstances, anything you say about them is at least eighty per cent wrong.

This diversity leads to one unfortunate result. Alumni have no mouthpiece, no spokesman competent and able to speak for all. These ninety alumni magazines that supposedly represent them in this country, too often present, therefore, a helter-skelter and indiscriminate aspect to the uninitiate, and create the idea that the harrassed editor knows nothing of what his readers want to see in the paper, and thus inserts everything, including tosh. There is no question but that alumni, like all corporate bodies, suffer from their spokesmen: that if anyone were forced to form his opinion of the American alumnus from the average compilation of reunion pie eating contests, Joe-Sims-is-now-the-proud-father-of-a-fourth, and other material that used to find the front page of the country newspaper before the days of the automobile and the radio, he would come away with a sorry and mistaken notion of the intellectual interests of the American college graduate.

Criticism notwithstanding, from collegiate alumni in this country come those who list as "men of affairs;" come, beyond question and despite some rather wild deviations, the intellectual aristocracy of the country. Would you gather so from reading the feature and editorial pages of the journals which supposedly represent them?

The *Ohio State University Monthly* thinks yes. It was one of the earliest to fall upon Mr. Marks, and this was its peroration: "It's one thing to read the *July Harpers*; quite another to read the July issues of nearly a hundred alumni magazines with their story of earnest alumni effort for the best things in American life as these are planted and come to flower under college auspices."

The effort we grant, but where is the story? In a spirit of pure research this office undertook to read the July issues (exclusive of 'alumni personals') of as many alumni periodicals as could safely be assimilated, and did it for the sole purpose of seeking the story out. The story that did transpire was quite another one, and we ask leave here to present it, making no concealment of its frankly Mercurial quality. After it is over, we shall steal away on tiptoe to allow you a decent moment or so of privacy for your tears.

The *Ohio State Monthly* reports a sporting event:

Well, all the alumni gotta say is that the professors are pigs for punishment when it comes to baseball. For the erstwhile pursuers of education took the campus pedagogues into camp for the third straight year on the morning of "Alumni Day" . . . The score was 6 to 5 at the end of six innings of misplay, miscue and misfire.

. . . the dozen or so spectators — mostly Klansmen of the Klass of '15 — were of the opinion that the late P. T. Barnum, collector of antiquities, freaks and other funnies lived a generation or two too soon. For if he could have seen the two aggregations of misfits and misshapes, he'd have wept for joy or died in delirium.

Intrepid assertion on a moot topic in the same journal:

The Eighteenth Amendment seems to have been the occasion of a considerable debate.

Further specimen of news printed by the same magazine:

Reunions with proud '95 and picturesque '15 in the limelight constantly, gave "Alumni Day," Saturday, June 12, its finest campus flavor. President "Pink" Tenney, here all the way from Springfield, Mass., was on deck early in the day and with him a chipper crew of red-smocked '15-ers who roamed the reservation from morning to night. "Pink" himself carried a huge "six-shooter" which he fired unexpectedly upon the slightest provocation, going so far even as to call the class meeting together in quiet Pomerene Hall by rattling the windows with its echoes.

Exemplification of the Great Alumni Magazine Feature by *The Journal*, Worcester Polytechnic Institute:

NICE HORSIE!

Atonement is about to be made for the sin of those who, forty years ago, transformed the chapel into a stable. Old Buckskin's unhappy tenure of that ghostly room caused damages that can only now be repaired at the cost of several thousand dollars. . . . And yet, financial considerations aside, what a fine aftermath to our most famous tradition!

Earnest alumni effort with African overtones as mirrored in the *Columbia Alumni News*:

The Class of 1916 truly celebrated and reunited. The lions roared. Yes, the Class members became themselves as roaring lions. . . . Then, everybody roared. . . . President Butler was caught by the newspaper cameras, suppressing a roar. Did you see the picture?

A study in alumni psychopathology and evidence of the difficulty of obtaining a college degree as printed in the *Illinois Alumni News*:

Some time ago an old graduate came in. He said he was interested in getting the University to give a degree to his old classmate, Mr. X. It seemed that Mr. X very much wanted the degree but was too modest to say anything about it.

His children urged him on. Could we do anything to help? We went down to the files of the registrar's office and found that a degree had been offered Mr. X in 1914, but the gentleman had never showed up for it, and so far as the records showed, he had not even answered the letter. Mr. X on being told this said he did recall some such letter, come to think of it, but was too busy to come back at the time so forgot all about it. Meanwhile his friends had spent a good deal of valuable time sympathizing with him and saying hard words about the failure of Alma Mater to recognize a worthy son, and Mr. X himself had about come to the conclusion that nobody loved him.

Jejune discussion and mulling over of alumni problems in the *Harvard Alumni Bulletin*:

THE UNIVERSITY AND ITS ALUMNI

This editorial might equally well have been headed "The Alumni and their University". Each of these two parties has a certain proprietorship of the others. Alumni are glad to acknowledge that they are in part what the University has made them, and they are proud to "belong" to it. The University, on the other hand, is, to no considerable extent, in the safe-keeping of the alumni. It depends largely on their generosity and on their judgment. Since in a measure the University is "theirs", they have a right to criticize policies which they do not like. No one is disposed to deny this right, or to discourage the exercise of it. There is no way of preventing it, even if one desired to do so. Harvard develops a critical independence of judgment, and must be prepared to receive the criticism which it breeds. But such criticism is not peculiar to Harvard. It belongs to the temper of the times and is characteristic of the atmosphere of American education. It is a natural manifestation of that individualism and habit of open discussion which pervades, and ought to pervade, all activities in a democratic society. Nor is criticism, even negative and hostile criticism, as injurious as it sometimes seems. Institutions die of apathy and not of criticism.

Choice rhapsody which is printed in the ingenuous *Illinois Alumni News* to explain its reader interest:

I'm a little late with my check (enclosed). I wouldn't miss my *Alumninum News*, as the nigger calls it, for twice the price. What a thrill it is to read the dope that makes the goose pimples pimple way down here where niggers are not football players. I fight for my *News* and do my own little Oskee-wow-wow, while my family wonder 'is he sane or what?' You bet it's like the fountain of youth in its stimulating effect, so don't stop it." C. E. E. ('05) Columbia, S. C.

Aspirations of alumni magazine editors as lushly set forth at the head of the "Editorial Comment" column in the *Southern California Alumni Review*:

The other day while attending a football game, a rooting section of two thousand men, acting almost as one, spelled out its name with colored cards. It was thrilling, beautiful, and superbly done. When it was over, some fellow just behind me said to his neighbor: "Did you see that dumb-bell flashing the wrong color?"

A short time ago, while at a theatre, a man stepped to the platform between acts and spoke on an important public question for three minutes. When he finished the person next to me said: "Wasn't he funny to wear a soft collar with a full dress?"

It is a better than even chance that neither of these critics had a whit of the ability, the earnestness or sincerity of their subjects. There are few works of man or nature that are flawless in all eyes, but after all, are successes made by picking flaws, or are they made by the inspiration of the finer side of things? Isn't better work a goal more because there are those who do better, rather than because of those who are worse? Wouldn't the first critic have been better for hoping to have the efficiency of 1999 rooters rather than exposing the inefficiency of one? Would n't the second critic have been better to have aspired to speak as well as the man in the dress suit did? The best manner of thought and speech is to aspire to be like the best, rather than assume the rôle of a self-appointed censor.

Linked sweetness long drawn out in the *Oregon Agricultural College Alumnus*:

Do you remember at budding fourteen how you looked upon the autumnal ripeness of forty or the sear and yellow leaf of fifty? Do you recall the impression you had in high school of the sage and sombre dignity of college life; in college, of the grown-up sobriety of the alumnus? But at family reunions and college jubilees, where all ages and all stages of the life cycle were represented in abandoned freedom; where limbs were enlivened by the spontaneous challenge of competitive sports, where pulses were quickened, laughter rang unrestrained, and where hearts were outpoured in a torrent of happy greetings and a glory of tender reminiscence, what a blending of the far extremes was there — from the infant to the patriarch! . . . How warm the mantling blood in the cheek that bitter years had tanned like leather! How sensitive to praise, or slight, the glance of the "girl" of indefinite summers, who still sees in the dance the challenge of a fresh adventure. . . . This, after all, is the enchantment of the class reunion, this is the glow of sunset splendor clinging about the brow of Alma Mater when the old grad comes back to lay his wreath of laurel, humbly and reverently, on her altar!

Choice lyric published by the *Lehigh Alumni Bulletin*:

Well! Well! Well! Well! Well!  
Gosh! Gosh! Gosh, Gosh, Gosh!  
As we go marching home!  
All repeating —  
Damn! Damn! Damn, Damn, Damn!  
Well! Well! Well, Well, Well!  
Gosh! Gosh! Gosh, Gosh, Gosh!  
As we go marching home!  
A-men!

Inside information revealed by the *Duke Alumni Register* about the big business actually transacted by graduates:

Women of Trinity and Duke then joined in singing "The Hymn to Alma Mater," after which business matters were discussed. In giving the report of the nominating committee, Mrs. Satterfield announced that the officers were to be elected for a term of one year only, in accordance with the revised constitution. . . . The report of the nominating committee was accepted and the above officers elected, after which *Trinity* was sung and the meeting of the Alumnae Association adjourned.

The *Wooster Alumni Bulletin* unbinds its garments:

#### ABOUT OURSELVES

Gloating is not our besetting sin, so perhaps we may be pardoned a reference to the Bulletin in this, Number 1 of Volume IV. You will have noticed the cover design — turn back, please, if you haven't — has suffered further refinement. The college seal has been redrawn. A new drawing replaces the familiar half tone. This is the first of a series which will beautify the cover this year. Tak Wan Leung, x '28, is the artist. The shadings of his work blend well with the border by Kenneth G. Weihe, '23, and give an harmonious ensemble.

A word about our contributors. . . . Mose Hole, '18, will continue to pillory us and our foibles. . . .

Commercialism invades the editorial page of the *Missouri Alumnus*:

Permit us to call your attention to the advertising in this and every issue of *The Alumnus*. These advertisers are spending their money with us, knowing that we will see to it that their advertising proves profitable to them. . . . Furthermore, don't fail to read every advertisement, for in most of the copy you'll find news of the greatest importance and interest. Just start right now and read the advertisements from cover to back. Do this right now, please.

Now tell me, wasn't it worth while? Didn't you garner a lot of dandy news?

The variety of homiletics rampant in alumni offices; also from the *Missouri Alumnus*:

You should never lose an opportunity to say something good about your alma mater. It doesn't cost a cent to say something helpful about your state University and for the institution that has helped so much to make you a success. Your mind and soul is just full of good thoughts and good things to say — an unlimited supply — and it doesn't cost a thing to say them, so why not? And when you do speak, seek an opportune time.

The above-named periodical editorially records the scientific discovery that smooth roads are better than rough ones:

We've just finished a motor trip over some of Missouri's good roads, concrete and gravel, too. What a pleasure it is to drive on a good road and how much prettier the countryside seems from a concrete slab than it does from a humpy or muddy and slippery dirt road! Some time soon, doubtless, the highway department will place markers giving the names of the creeks and rivers which the highways cross and perhaps every farmer on a good road who is proud of his home will place at the gate his name, the name of his farm, and the products he has for sale. Not gaudy or slouchy signs but dignified, attractive markers, maybe designed by the highway department.

Rhapsody on the march of academic progress by the *Case Alumnus*:

A new field, a new team, a new fence, new players' benches! Everything new, along with that old Case fighting spirit that has always made the Brown and White a worthy opponent of any of them.

That field, it sure is a beauty! The opening game will show to thousands of alumni, students and people of Cleveland a gridiron that is destined to be one of the best in Ohio. Smooth, with a slight rise in the middle for drainage, it represents a playing field that will inspire the Case warriors to new heights. . . . The field itself was moved seventy feet south to make way for the new million dollar mechanical engineering building.

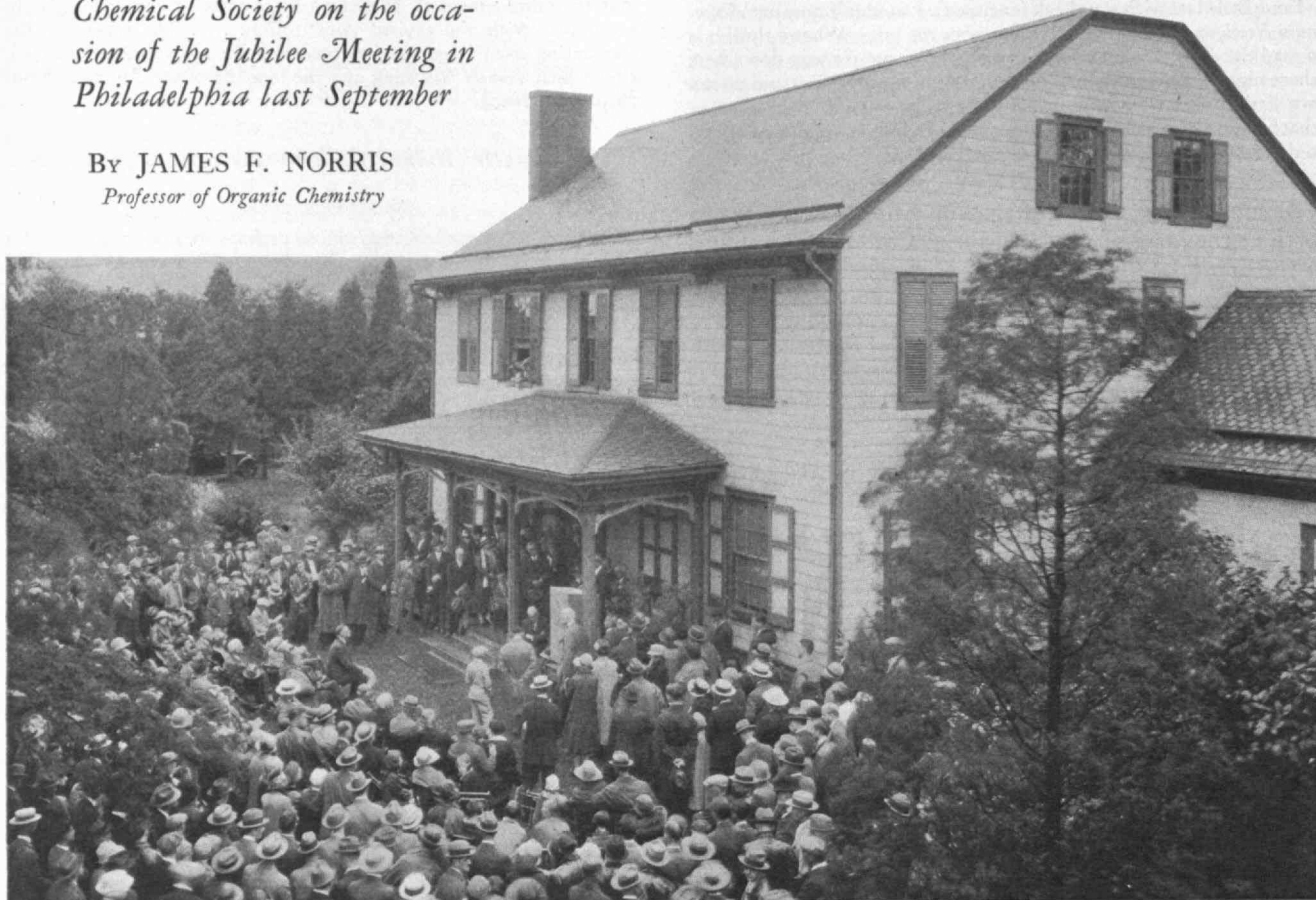


# Through the Chemist's Looking-Glass

*Being an abridgment of an address by the President of the American Chemical Society on the occasion of the Jubilee Meeting in Philadelphia last September*

BY JAMES F. NORRIS

*Professor of Organic Chemistry*



THE MECCA: PRIESTLEY'S HOUSE

*Chemists from the world over on September 5, made a pilgrimage to this old house in Northumberland, Penna., to render homage to Joseph Priestley, pioneer chemist, discoverer of oxygen, founder in this self-same house of the American Chemical Society*

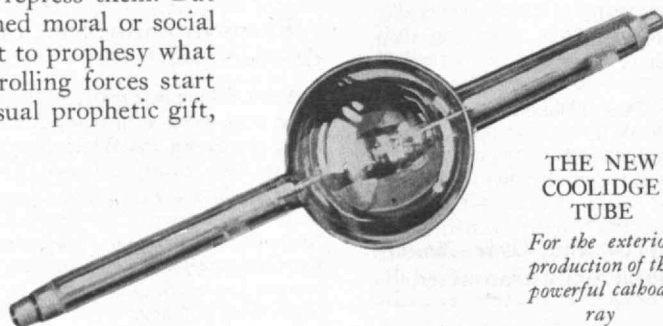
THE last quarter-century has seen a steady growth of chemistry in America, and the record of the last decade cannot anywhere be surpassed. Although it is well to stop and look back, it is more inspiring to look ahead. History is the story of past actions; it is knowledge. It can become more only when it is interpreted — when it becomes the background for advance.

I have been tempted to express some random thoughts concerning what lies just ahead in chemistry. But the rôle of a prophet is seldom a happy one, and real prophets have always been rare. Prophecy, based on human behavior, is not difficult. Human passions are about the same as in Adam's day. Civilization has taught us to clothe them, even to repress them. But given a situation with defined moral or social aspects and it is not difficult to prophesy what *will* happen when the controlling forces start into play. It takes no unusual prophetic gift, for example, to foretell another great world war.

But in science it is difficult. Now and then a great discovery is made that completely changes the trend of affairs.

I

The last twenty-five years have yielded an astounding knowledge of the nature of the chemist's unit of matter — the atom; and the next quarter-century, in my judgment, will see the development of a chemistry of the atom comparable with our present knowledge of the chemistry of molecules. We have learned how to dissect molecules into their constituent atoms, and how to bring the latter into new combinations, with the result that new substances are formed. A chemist knows how to get hydrogen and oxygen out of water, nitrogen from the air, and carbon from coal, and with these elementary atoms build up a beautiful dye, an efficient drug, an active poison, or a valuable food. He can use his atoms to develop energy to drive his machines. The atoms have been his plaything — his building blocks — and he knows how to play



THE NEW  
COOLIDGE  
TUBE

*For the exterior  
production of the  
powerful cathode  
ray*





PROFESSOR JAMES F.  
NORRIS

*President of the American Chemical Society and Professor of Organic Chemistry at the Institute*

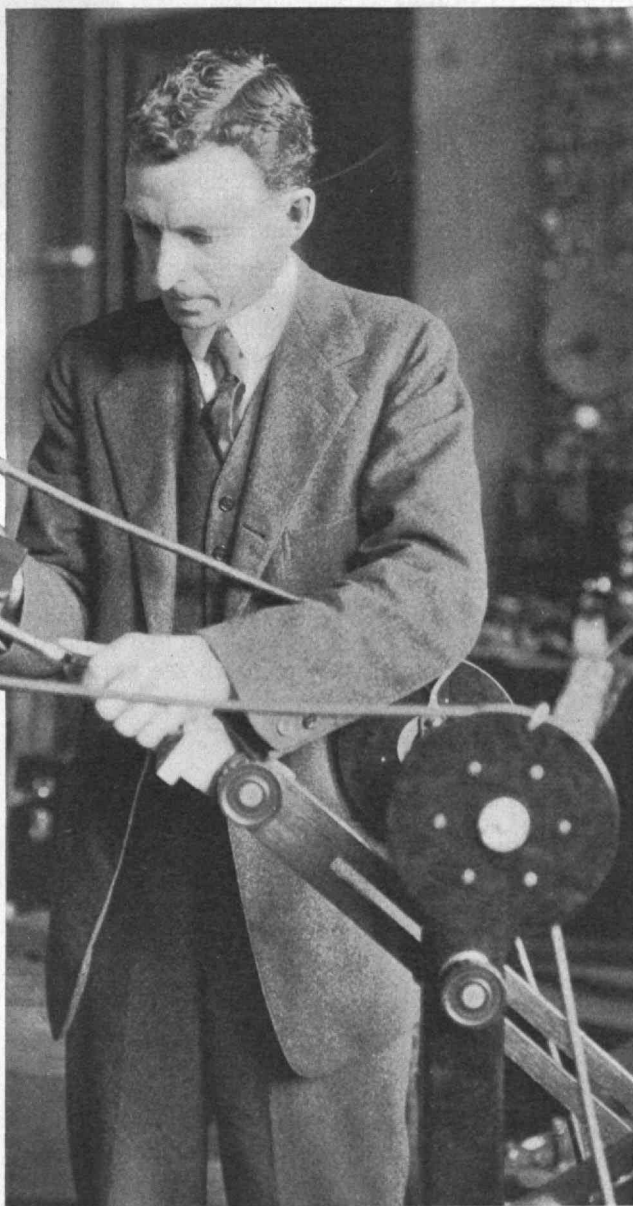
the game. But he will not be long content with atoms as his smallest blocks. He is now just beginning to learn how to dissect them. Is it unreasonable to prophesy that some of those now living may see the day when it will be possible to tear apart the constituents of which the atom is composed and build up from these parts any desired atom at will?

A glimpse into the past may give the doubtful courage to be optimistic. I can recall the day when the scientist's knowledge of the nature of the atom was entirely hypothetical. Even a belief in its very existence required an element of faith. A few observations were made, apparently unrelated, which were seen, however, by thoughtful men to lead to a way to study the atom itself. An attempt to weigh nitrogen with a high degree of accuracy led to anomalous results that had to be explained; the observation that a wire heated to incandescence in an electric light bulb produced a characteristic glow, demanded further study; and the striking fact that certain minerals sent off mysterious rays that could penetrate opaque materials and affect a photographic plate, set many at work to study the phenomenon. And what has followed from the work inspired by these discoveries? We can now count atoms, one by one; we can even make an atom flash a light or ring a bell to show when it passes. We know that atoms carry electricity, and we can determine experimentally the exact amount of the charge. We have been able to prove that the atom is a complex framework built of positive and negative electricity.

Means have been found to tear to pieces complex atoms and get simpler units, which prove to be what we have looked upon as the atoms of other elements. With such a record, achieved since many of us entered upon our life work, who would dare to oppose the view that before long we shall be able to work with atoms as we do now with molecules? Whether or not mercury has been already changed into gold or gold into mercury lacks importance in the light of coming events. When the intangible imaginings of the past—mere dreams—have come true, we feel a confidence in a future based on such achievements. Some years ago I heard Elihu Thomson prophesy that before long the technical applications of electricity would resolve themselves into electron engineering. Some smiled then, who would not do so today.

The atoms are a storehouse of energy that make coal, petroleum, and waterfalls sink into insignificance as the means to do the mechanical work of the world. I hold that it is not foolhardy to refuse to worry about the consumption of natural resources or to look to the future with confidence that science will always keep ahead of the needs of the world.

Our present knowledge tells us that each individual atom resembles a solar system. Charges of negative electricity—the electrons—revolve at comparatively great distances around a central nucleus composed of positive and negative charges. Until recently the electron has been the smallest unit recognized. But a new era is dawning. Sir Joseph Thomson, who has been a leader in this field of investigation, now proposes a new



WILLIAM D. COOLIDGE, '96, IN HIS LABORATORY

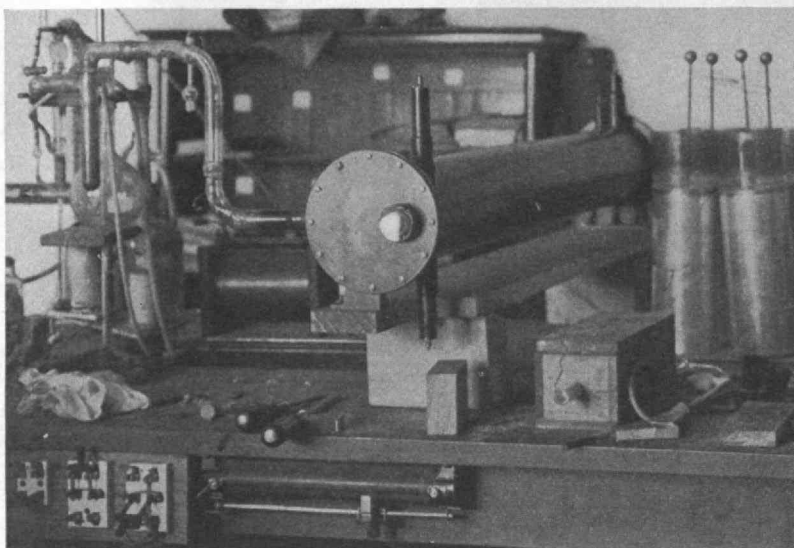
*Dr. Coolidge is manipulating a portable x-ray outfit he has developed. Of late he has been doing epochal work in the field of cathode rays, for which he was awarded on October 20, The Howard N. Potts Gold Medal of the Franklin Institute of Philadelphia*

hypothesis — even the electron is complex; it is itself a solar system of a new order of magnitude. This hypothesis makes it possible to correlate the older with the newer views as to the manner in which radiant energy is transported from place to place. What lies ahead as the result of the experimental study of this new hypothesis no one can foretell. But we can be sure that the developments ahead will be a most important factor in moulding our future civilization.

It is perhaps worth while to picture some of the consequences of the discovery of a method to dissect the atom and to put together the parts into other arrangements. This means practical transmutation of the elements. When this is accomplished it will be possible not only to make gold out of mercury but any metal desired. It is evident that such a result would destroy our present system of values. An economic upheaval would force upon the world a change from the present unsatisfactory system based upon gold, to a more rational one based on something more fundamental — perhaps on the value of a man's labor or on necessary commodities. Whatever the result, we would see new standards set up which would change society in such a way that a more equable distribution of wealth would follow. Property rights in natural resources would disappear. A family could not live for generations in affluence and produce nothing, as the result of the purchase by a forefather of a copper mine when the demand for the metal had not developed. It is impossible to conceive of the extent of the social revolution that would follow practical transmutation of the elements.

We know that the atoms consist of unthinkable amounts of bound-up energy. They are like a jack-in-the-box. When we learn how to touch the button, the

energy will spring out and we can use it. There will then be no underground slaves and no coal barons. A limitless supply of energy will make over the world. Every man will have time to taste of the joys of life.



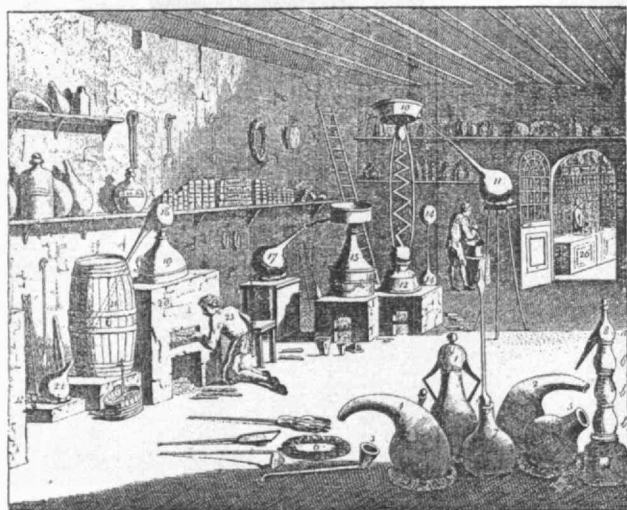
APPARATUS OF A TWENTIETH CENTURY LABORATORY

*A vacuum spectrometer is shown here. With this Dr. Robert A. Millikan investigates radiant energy*

I hold that these views are not phantasy. Contrast life a century ago and today. Study the effects of great discoveries and the inventions based upon them. What were the effects of the steam engine, the internal combustion engine, and the dynamo? When the world learned how to use heat as a source of energy a new epoch in civilization was marked out. When heat was the only form of usable energy to bring about transformations in matter a great chemistry was built up. With the discovery of electricity and the methods to develop and use it, a second epoch in civilization was created and a new chemistry was born. Substances considered elementary were found to be complex, and the science made life easier and happier.

We are now beginning to study the effects of a new kind of energy on matter — the energy tied up in the electron and the atom. We scientists know that energy has two factors — quantity and intensity — and that the latter factor is all important in bringing about changes in matter. We are beginning to learn how to obtain and use energy with a high intensity factor, and the result will be again a new chemistry and a new world in which to live.

This new type of energy — an electric charge traveling almost inconceivably fast — can do wonderful things that cannot be accomplished by less intense forms. A whole new field in chemistry lies before us for study. When I saw not long ago in the laboratory of S. C. Lind [O2] a tiny drop of a colorless oil that had been formed from methane — the chief constituent of natural gas — as the result of the action of this form of energy upon it, I felt a new era in chemistry had dawned. That droplet meant a supply of combustible liquid to run our automobiles when petroleum is exhausted. We can make methane from carbon and hydrogen when the



APPARATUS OF AN EIGHTEENTH CENTURY LABORATORY

*Chemistry at that time was carried on with weird apparatus under unusual circumstances*



supply of natural gas fails us. The sun will always be able to convert carbon dioxide into a form from which we can get back carbon. The pessimistic critic will declare this is all impossible. He will say that radium



DR. ROBERT A. MILLIKAN

*Of whom Professor Norris says "The highly penetrating rays studied by Millikan furnish an opportunity for the discovery of startling facts"*

was used to get the kind of energy to bring about the transformation and that there is not enough radium in the world if we could afford to pay the high price for the energy needed. But radium is not necessary. The work of Coolidge [W.D., '96] shows that we can get this kind of energy from an X-ray tube. But again the rejoinder is that this kind of energy is too expensive to use. Such a critic limits the achievements of the future to the application of known knowl-

edge and cannot see that the past has proved that new knowledge furnishes the means for advance. When electricity from a primary battery was first converted into light, who would have conceived of it ever being cheap enough to be used to draw heavy freight trains over mountains?

The study of the behavior of matter under the action of energy with a high intensity factor will lead to a new chemistry. The ground has only been broken in the investigation of action of sunlight, ultra-violet light, and X-rays. And now the highly penetrating rays studied by Millikan furnish an opportunity for the discovery of startling facts. The utilization of the radiant energy supplied free and in unlimited amounts will follow further study in this field. At present we rely upon the slow-going processes of Nature to convert the waste carbon dioxide of the air into the cereal foods so necessary for living things. Bailey has shown that ultra-violet light will convert formaldehyde into a sugar. And since formaldehyde can be made from the products formed when coal is heated with steam, it is possible to see ahead the synthesis of foods without the slow process of passing through the vegetable kingdom.

So much for the atom. I have not listed half its wonders, but these few, I think, are enough for our pessimist.

## II

Turning now to a consideration of the molecule, the next step up in the complexity of matter, it is possible to speak with more confidence. We have had a chemistry of molecules for over two centuries, whereas the chemistry of the atom is still an infant. The last half-century has yielded an astounding amount of knowledge in regard to the architecture of the units of which individual substances are built. Structural organic chemistry holds the first place among the intellectual triumphs in this field of science. It is possible to pick to pieces a complex natural substance in such a way that each operation gives us information as to how the atoms are united. And when the work is finished we can construct a model which shows how the many atoms present are linked one with the other. But we can go farther. Guided by the model we can, like the architect, gather together the pieces required from many sources and fit them together in such a way that our finished product is identical with the substance from which the model was constructed. Nature furnishes us with a blue coloring matter which is the highly prized and useful dye, indigo. The detailed study of the substance led to the drawing of the plan of the complex molecule; and later, with this as a guide, it was found possible to construct from simpler and readily obtainable building material the same kind of molecules elaborated in the plant.

Recalling the achievements of the past, one can boldly prophesy future triumphs. As an example, let us consider but one field in which synthetic organic chemistry will prove itself to be perhaps the most potent factor of all those that are working toward the advancement of civilization and the peace of the world. I refer to the use of chemical compounds in combating disease and, as a result, prolonging life—the modern science of chemotherapy.

Some of us have heard discussed recently at Williams-town the astounding loss of efficiency of the human race



### SPOKESMEN FOR THE CHEMISTS

*Speakers at the Priestley Pilgrimage Exercises. In the top row, fourth from the left, is W. H. Walker, non-resident Professor of Chemical Engineering at the Institute. In the bottom row, to the right, is Professor J. F. Norris*



that results from preventable sickness and death. We heard, too, at Williamstown, what chemistry has done to combat disease. Dr. Loevenhart told an inspiring story. Sleeping sickness, hook-worm disease, syphilis, and allied scourges have been taking a toll of millions, but synthetic organic chemistry has produced substances that are conquering these terrors. A start only has been made. Malaria, spread in the most fruitful parts of the globe, is incapacitating and destroying millions, and we have used but one drug — quinine — to fight it.

It is the aim of chemotherapy to build up substances, not supplied by Nature, which have such physical and chemical properties that they destroy the organisms which cause disease. This great new science has been woefully neglected in this country. The Rockefeller Foundation, which has spent millions of dollars in promoting world health, is content to make use of known facts and has done nothing toward increasing knowledge in this field.

Some broad-minded philanthropist with vision will see the opportunity for world service and endow an institution in which synthetic organic chemists, pharmacologists, and doctors skilled in clinical medicine will cooperate in solving the greatest problem before the world today. As knowledge grows, the curative effects of antitoxins and other complex organic substances developed in the body will be traced to specific organic molecules capable of synthesis in the laboratory. Disease after disease will be conquered and a new era will dawn.

I have just sketched a few important applications of our accumulated knowledge of the molecule. But it is also important to stress the fact that while we have gone far in interpreting molecular architecture, much remains to be done.

### III

At this time in the history of the American Chemical Society we are looking back on the growth of chemical knowledge in the last fifty years and on what chemistry has done for the world. We must not forget that all the results of which we are proud are based on painstaking research. If we are to go ahead it will be only through research that the desired aim will be reached. The appreciation of the value of research is rapidly growing in this country, and the American Chemical Society has taken no small part in bringing about this satisfactory state of affairs. It has been a hard fight. With the financial control of our industries largely in the hands of those who know nothing of science or its uses, it has been difficult to obtain the support for research that it needs.

There are at present several agencies at work that will lead to an increase in the scientific productivity of this country in the immediate future.

Research from the standpoint of pure science — the basis of all advance — will receive a stimulus from the great fund now being collected by the National Academy of Sciences through the activities of a committee of which Herbert Hoover is chairman. With two million dollars a year for ten years to cover the cost of research in all fields of pure science, a start will be made that will assure assistance in the future.

The growing demand of industry for men to improve old processes and devise new ones through research is attracting many young men of brains. Our universities are overtaxed with graduate students in science; and each one, under careful supervision, is extending the boundaries of knowledge in learning how to solve scientific problems.

The development of research of this type is assured, but there is another kind, equally important, if the industries based upon chemistry are to progress. There is an immediate need for the intensive study from a fundamental point of view of the chemistry underlying these industries. It cannot be expected that a single organization will finance such work, the results of which should be available to the entire industry. In my judgment, cooperative efforts will be the solution of the problem. We have seen that England, after the war, came to this conclusion; and the laboratories set up by the more important industries are doing the kind of work that will help England hold her position in the industrial world.

We are only now learning in this country the value of cooperation in industry. Where it has been tried it has succeeded. It is a different type of cooperation that has made fruit growing so profitable in the West. The farmers of the Middle West will stop their complaints when they have learned their lesson. The day of the individual and the small business organization is passing. We are learning that trusts are not entirely a menace. The individual units in great industries will find some day that they have a common ground on which they can meet and attack their problems jointly — not in competition.

Suppose a large industry — like that devoted to the utilization of rubber — should establish a research laboratory to investigate problems fundamental to the industry and for the study of which no provision can now be made in a single organization. It is easy to see that great good would come from such cooperation. Would not a cheap and reliable source of synthetic rubber be a boon to the industry as a whole? Is any single company willing to finance such an expensive research, even though the prize, if won, is so valuable? But if the work were to be undertaken by cooperative effort each stake in the gamble would be so small that it would be a very minor item in the budget of the whole undertaking.

### IV

As a result of a look ahead I am filled with confidence in the future. I see in the next half-century a great development in chemistry in the world, and especially in this country where the conditions are most favorable. I see our knowledge of matter extended so broadly that what we know today is but the foreground of an impressive picture. And I see an unparalleled utilization of chemical knowledge for the physical, aesthetic, and economic welfare of man. And when, through the efforts of chemists, the world has more of good health, and every one more leisure to know his fellows, to travel, to enjoy the best in life, the day will come when the world will be a better place in which to live and international good feeling will prevail.

# Charles William Eliot and the Institute

*A side light on the little-known relationship between the Founder of Technology  
and the late President-Emeritus of Harvard*

IT is an interesting commentary on what are asserted to be degenerate times that, when Charles William Eliot died last summer, he was regarded not merely by educators, but by citizens in general, as the foremost man in the United States. This is the more remarkable in that Dr. Eliot gave up the presidency of Harvard University seventeen years ago and, since his resignation, had held no other outstanding office.

Dr. Eliot achieved the position of leader among one hundred and ten million men and women, not through his wealth, for he was always, comparatively speaking, poor; not through his personal charm, for he was markedly austere; not through his political prominence, for he was always independent of both the great parties and sharply critical of many of their acts; not through his profound scholarship, for he was never preëminent in chemistry, his chosen field, or in any other branch of science; and certainly not through any reflected glory from his position as President of the oldest American university. It is, therefore, of immense encouragement to those who maintain the essential soundness of the American people to have it so plainly demonstrated that a man may have few of the qualifications which are supposed to capture the popular imagination and may yet be chosen by the great body of citizens as their outstanding leader.

Dr. Eliot's nation-wide pre-eminence was reached through the force of his intellect, through his life-long devotion to the truth and through his moral courage in following the truth regardless of blind tradition, of timid conventionality or of temporary unpopularity.

The sons of the Massachusetts Institute of Technology have sound reason to believe that Dr. Eliot's indifference to money-making and to the applause of the crowd, his willingness to face and to follow facts, even though involving wide departure from traditions and conventions, and his unflinching courage were markedly developed and strengthened by his association, during his earlier years, with the Institute, and by his training as a teacher and administrator under the Founder of Technology, William Barton Rogers.

When Professor Rogers undertook the seemingly impossible

task of creating an entirely new type of college within a highly conservative community and in the midst of civil war, he realized that his experiment could not succeed unless he gathered around him men of intellectual and moral qualities approximating his own. Limited resources made a large faculty impossible; but personal devotion to Professor Rogers and belief in the soundness of his plan drew to his aid a remarkable group of teachers, all of them pioneers in the educational field. Among them, as professor of analytical chemistry, was the youthful Charles William Eliot, then in the early thirties, who had just returned from study in European laboratories of chemistry and who, presumably, accepted the appointment at the Institute with the full understanding that he would not remain indefinitely a teacher. Nevertheless, during his four years' association with the Institute, he performed his duties there with the utmost zeal, prepared, with Professor Storer, his associate in the department of chemistry, two manuals that re-

mained authoritative for many years, and took a laborious part, as all the early faculty did, in working out with Professor Rogers the complex administrative and financial problems of the new Technology.

If, as is likely, the young Eliot was already contemplating possible election to the presidency of Harvard, it required not simply courage, but rare foresight, to identify himself with applied science, then practically ignored by university men, and to associate himself with an institution, not only financially feeble, but, in its method of education, alarmingly radical. To secure the presidency of Harvard, Professor Eliot would have to break down the tradition that the head of that college should be a clergyman. This tradition in itself was so great an obstacle that only a strong and far-seeing mind would have had the courage to assume additional handicaps.

Whether of himself or through the influence of Rogers, Eliot doubtless foresaw the extraordinary part which science was to play in his and succeeding generations. He realized, too, that the laboratory method, of which Professor Rogers was an almost vehement advocate, would be fundamental to that



CHARLES WILLIAM ELIOT

*His death, August 22, profoundly affected the nation. As Professor of Analytical Chemistry and Metallurgy at the Institute he was a confrère of President Rogers*



training of the new generation in which, from the beginning, Mr. Eliot evidently proposed to himself to be a leader.

Although handicapped by being a layman, a teacher of chemistry and an associate of an institution despised by those trained in the classics, Charles William Eliot possessed certain assets which, in the end, secured to him the presidency of Harvard at what was then considered the dangerously early age of thirty-five. He was related to, or connected with, a number of the socially powerful families who at that time controlled in large measure the destinies of the college. He was known to possess high moral courage, educational leadership and a genius for administration. The directors of the emerging textile and other New England industries, through whose generosity the college was in the main supported, regarded applied science as one of the chief factors in their ultimate success. And, not least, Professor Rogers was using his own educational and social prestige—for Mrs. Rogers was a daughter of James Savage, the eminent genealogist—to overcome the many difficulties in Professor Eliot's way.

How fortunate it was for Harvard University that Charles William Eliot had this worthy ambition and that he reached his goal at an age when he had still the intellectual flexibility of youth. His career as president was phenomenal. His introduction of the elective system,

while he may have carried it too far, broke the fetters of all types of education. His insistence upon laboratories and laboratory methods made collegiate teaching real and effective. His building up of powerful professional schools, such as those of law and medicine, converted Harvard from a local college into an international university. Not only in Cambridge, but throughout the United States, he made himself a leader in affairs and created for himself, without in the least seeking it, the position of First Citizen.

It is futile even to attempt to analyze the influence of one man upon another; but it is significant that those outstanding things in education for which Eliot stood had been advocated by Rogers since 1845, and that during four of his most impressionable years, except when one or the other man was in Europe, the younger was in closest association with the older teacher.

The position of Massachusetts in the world of education is still one of leadership. Its colleges and schools draw young men and women from all parts of the country and of the world. That it holds the position is due in extraordinary measure to the fact that, in the formative days of higher education, Rogers not only was creating the Massachusetts Institute of Technology, but at the same time was training for his subsequent remarkable career as rebuilder of Harvard College, his colleague and his devoted pupil, Charles William Eliot.



THE NATION'S LEADERS PARTICIPATED IN PRESIDENT ELIOT'S NINETIETH BIRTHDAY CELEBRATION



## Undergraduate Affairs



CREW LAUNCHES

*Full speed ahead with the new Flagship in the lead (on the right). These coaching launches in speed and equipment are much superior to anything hitherto docked at the boat house*

### *Athletic Prosperity*

THE rising tide of tolerance toward athletics received ample demonstration over the summer. Allan Winter Rowe, '01, went to the mountains. Bursar Horace S. Ford, with enthusiasm born of interest, went a-marketing. Major Smith's horses and Major Smith's men set about with great activity. Mysterious friends of athletics made mysterious donations. The Corporation appropriated freely.

With what result? In the boat house are sixteen new hydraulic rowing machines. In the motor boat *Waif* is a new engine. Three launches sit trimly with decks cleared, engines tuned and primed. A new shell (donated by some unknown) is being built by the Davy Company of Cambridge. A sixteen-oared barge for training purposes has been contracted for. Authorities state that two or three more shells will be launched in the spring. Permission has just been obtained from the Metropolitan District Commission to add two wing extensions to the landing float. Thus did the increasingly important sport of crew emerge from the summer. A great ovation was given Bursar Ford when he announced the acquisition of this new equipment at a Crew Mass Meeting on October 6.

End to end with the track house, a new building is being reared as another token of athletic tolerance. It houses eight squash courts, presenting this all-year-

round game for the first time to the Institute. Over across Massachusetts Avenue, two new concrete tennis courts, painted green, are now being played upon. Nearby a new soccer field has been in use for some time.

These are signs of the times. Aided and abetted by all parties the scope of Institute athletics is increasing, participation becomes more and more general, pauperish conditions are being alleviated. It is all very encouraging.

### *New Coach*

Those hard-working folk in the track house were not slighted in the summer's negotiations. To them, as assistant coach of track, comes William Meanix, famous Boston Athletic Association track athlete, Colby and Harvard star, in 1914 national low hurdles champion, low hurdler for America in the 1920 Olympics, experienced coach.

With Oscar Hedlund concentrating on the track events and Meanix on those in the field, coaching prospects are the most excellent in years.

### *Training Camp*

An experiment in the assimilation of freshmen, new to the Institute, was tried this fall. Over the week-end preceding the opening of school, eighty picked Class of 1930 matriculates assembled at Camp Massapoag, near

Lost Lake, Mass., for a three-day camp. A program covering the seventy-two hours consisted of discussion groups, recreational entertainment, and talks by activity leaders and Institute officials.

The avowed purpose of the camp (expressed by its sponsor, The Technology Christian Association) was to acquaint the freshmen with each other, with the customs and traditions of Technology, and with the leaders of undergraduate activities and the officials of the Institute. Dean Henry P. Talbot, '85, talked, James P. Munroe, '82, expounded, the Reverend Doctor William Gardner and the Reverend Sidney Lovett conducted "discussion groups." All of the activity heads were on hand to boost their enterprises and to familiarize the freshmen with them. Not all the program was educational. Good water there was to swim in, games to participate in, diversion to while away time.

The experiment was tried hesitatingly. Patronage was doubtful. In the end anticipations were exceeded; freshmen had to be turned away; those that did go entered into the spirit of the affair with zest. Activities got many candidates. Officials seemed pleased. The eighty freshmen were excellently orientated. The sponsoring organization holds that the camp was the first thing of its kind in an American college. Nothing of its sort was ever before attempted at the Institute.

### Stamp and Stencil

The All-Technology Smoker, 1926 edition, in mode, manner and spirit repeated the editions of 1925, 1924 and before except that this year's had the smallest attendance within memory. As the laws of the Medes and Persians it is, immutable and unchangeable. This year's, in all fairness, should be credited with a non-routine accident. The freshmen *en masse* were descending from the upper floors of Walker and seemingly the several hundred of them were trying to arrive at the foot of the stairs at the same time, through the same space. As per the theorem of Bernoulli, the pressure increased and the resistance to flow increased as the human stream kept pushing on. At the very foot of the stair a newel post of marble, husky and heavy, resisted, shuddered, cracked, tottered and fell. Standers-by narrowly averted injury by jumping. None were hurt. Major



CAMPERS OLD AND YOUNG

Freshmen, activity heads, and officials at Camp Massapoag at the Technology Christian Association Camp. If this photograph were larger you might discern such dignitaries as James P. Munroe, '82, and Dean Henry P. Talbot, '85



STILL LIFE

The Institute's three crew launches tied up at the boat house float. One of the new wing extensions to be added to the old float will extend out over the area covered by the launches

Albert S. Smith, alone, felt the fall, painfully, figuratively. The reported damage reached the \$200 mark.

Thus was the 1926 smoker distinctive. As usual the freshmen and transfers were given a free supper. As usual upon finishing they had expounded to them the merits of activities. For athletics, Allan W. Rowe, '01, in manner suave and earnest explained and pleaded; for the publications, Professor Winward Prescott in manner lucid talked; for the Musical Clubs and Shows, Professor Robert E. Rogers, Contributing Editor of the Review, in manner ironical and with adept humor won by thrust and offense the triangular tilt.

Followed then an interlude during which the freshmen were expected to take the advice just dispensed and betake themselves to some activity office, there to declare themselves aspiring candidates. As usual the ruse worked well and the tribe of "blurping activity men" (phrase by *VooDoo*) increased.

The freshmen, having been converted to the undergraduate capitalistic system, repaired again to the Main Hall there to see movies, the presentation (Henry F. Bryant, '87, to James A. Lyles, '27) of the key to Walker Memorial, the award of the Technique Cup to H. G. Steinbrenner, '27, dubbing him the Institute's best athletic point-winner. For the first time the Swartz Medal for excellency in athletic managership was awarded in memory of George Swartz, '24, one time President of the M. I. T. A. A., who died the summer following his graduation. William H. Robinson, Jr., President of Swartz's class, awarded it to James A. Lyles, '27, manager of basketball last year.

This business program was followed by entertainment consisting of a sleight of hand performance by Thomas A. Knowles, '27, a series of vaudeville acts to eye and ear mediocre, and finally a ventriloquist act by Hunter Rouse, '29.

Thus, as in years past, the freshman's knowledge of the devious ways of Institute life was intensively cultivated. Presumably, acceleration was afforded this year by the experiment on the shores of Lost Lake, elsewhere in this section particularized.



# News from the Alumni Clubs

## M. I. T. Alumni Association of Cleveland

THE annual Cleveland-Akron Technology Picnic was held at the Breckesville Country Club at Breckesville, Ohio, on Saturday, September 18. There were just enough men from Cleveland and Akron to have a good ball game and the usual stunt of placing a keg of cider on third base was met with great enthusiasm.

At the close of the athletic events all the members assembled at the Club House and had dinner. In the evening there was a general discussion of the new National Technology Center proposition. Any members of the Cleveland Club who wish a more detailed account of this movement than that which appeared in *The Review*, can obtain this information from the writer. It is the consensus of opinion of the Cleveland Club that a large office building in the center of New York would be lost in the shuffle and would have very little advertising value. However, we are very much interested in a movement that we understand is on foot to have an Ohio Dormitory, the money for which will be solicited from the five Ohio Alumni Associations. Any members interested in this movement can get in touch with the writer.

We were very much pleased to see Mr. S. W. Stanyan, '14, Course VI, who drove all the way from Mansfield, Ohio, eighty-four miles, to attend the picnic. He is with the Ohio Brass Company at Mansfield. The Cleveland-Akron Technology picnics must be worth while.

We are interested to know that Professor C. E. Turner of the Department of Biology and Public Health at the Institute is going to deliver a series of lectures on Health Education in Cleveland. He is one of the many noted Technology men who visit Cleveland during the year and we know that the local alumni will be interested in his lectures.

The Cleveland alumni, in looking forward to winter activities, are pleased to announce that Morris Rew, '09, who is assistant to the Vice-President of the Cleveland Railway Company and personally in charge of the Motor Bus Division of the Cleveland Railway, has accepted the office of acting president of the Cleveland Alumni Association while Mr. Henry Howard, '89, is South for the winter. This winter we hope to have dinner meetings about every other month and to have some nationally known speaker to address us at each meeting. Your Secretary would appreciate very much any suggestions you have regarding the programs for these meetings.

Our first fall meeting will probably be around the first of November. Please watch for notices of this meeting and return the stamped card whether you expect to attend this meeting or not.

ARTHUR I. BRADLEY, '21, *Secretary*,  
Graybar Electric Co., 1010 Rockwell Ave., Cleveland, Ohio.

## The M. I. T. Club of Akron

The M. I. T. Club of Akron introduced an innovation for its summer meeting which proved very successful. This meeting was in the form of an outing and dinner, held at Glen Crest, Stafford Lake, on Saturday afternoon and evening, July 24.

The feature of the party, and also the innovation, was the presence of the wives, daughters, children and lady friends of the various Club members. Heretofore, Technology Club affairs around Akron had been strictly stag parties. It was certainly a very happy thought, which some one had when the meeting was first contemplated, to also invite the ladies.

With the forethought that no ordinary committee could plan and run such an affair successfully, considerable care was exercised in its selection. A Committee was finally made up, after the very careful pruning of a long list of prospects. This Committee did a wonderful piece of work and put over one of the best Technology parties in many years. The committee consisted of Lester M. Brock, '07, Chairman; Harry Alexander, '11; R. H. Wolcott, '15; H. A. Bruson, '23, and A. A. Lauria, '25.

The afternoon was occupied by all concerned in numerous sports and recreation. Everything was provided from baseball to swimming and boating. For those preferring less violent exercise, bridge tables and cards were at hand.

In the evening an excellent dinner was enjoyed in the dining room of the Hotel Glen Crest. Directly after the dessert course, a short session of indoor sports was engaged in, including slogan guessing, sewing on buttons and adding erratic columns of figures. Then came the award of prizes to the winners of the various contests. These were as follows: ladies' balloon blowing contest, Miss Leiter, a mouth organ; button sewing contest (men only), A. W. Carpenter, '13, a silver thimble (Carpenter is a bachelor); backward running race for ladies, Mrs. R. P. Dinsmore, silver compact; hopping race for men, F. P. Hammond, '25, silver belt buckle and watch guard; ladies' cracker-chewing contest, Miss Roberta Phillips, a box of Beechnut Chewing Gum; men's cracker-chewing contest, A. A. Lauria, '25, a package of Beechnut Chewing Tobacco; pop-drinking contest, J. E. Connor, '23, a nigger baby; ladies' slogan-guessing contest, Mrs. A. M. Keller, a pair of vivid red garters; men's slogan-guessing contest, A. M. Hamblet, '02, a pair of London Harness Company suspenders, violent purple in color. In the baseball game, B. Darrow, '11, was captain of the Wets and A. M. Hamblet, '02, was captain of the Drys. The Wets won with a score of 15-11 and received for a prize a cocktail shaker to be kept in the Club House locker until they have room for a trophy room.

The committee, knowing that a prize winner always expects and is expected to make a speech upon the presentation of the prize, saw to it that all the speeches were forthcoming and were of sufficient merit to be appropriate to the dignity of the occasion. In other words, the committee wrote all the speeches and when a contest winner received his prize, he also received his speech which was a verse of original poetry in a gold leaf embossed envelope.

The ball game being considered the most important contest of the day was placed last on the list in the ceremony of presenting the prizes. The prize was not only a very fine one, but the speech that went with it was a masterpiece.

The meeting then adjourned, although quite a few of the crowd lingered to play cards.

It rather looks as if the Akron Club cannot go wrong in including a ladies night in their program for next winter.

PARRY KELLER, '15, *Secretary*,  
Goodyear Tire & Rubber Co., Akron, Ohio.



*Members of the Technology Club of Kentucky with wives and friends ensconced at the base of the columns of the Lincoln Memorial, near Hodgenville. The occasion was the 1926 Annual Outing*

## Technology Club of Kentucky

On May 19, eight of the members met at the Hotel Kentucky for luncheon and there made plans for the Annual Outing. Other business was transacted, but the Outing by far outweighed all else.

On Saturday, June 12, the party gathered to board a Kentucky Carriers bus which was to take us to the Lincoln Memorial near



Hodgensville. Be it known that the Kentucky Carriers is a protégé, or should we say are protégés, of James P. Barnes, '05, whose first love is the Louisville Railway Company. Although a number of the members apparently preferred their offices to J. P. Barnes' bus, those making the trip had a joyous time.

The first stop was at West Point, where the Club stood treat at the bar—soft drinks. James C. Clark, Jr., '90, got under way there and enlivened the trip from then on, with the able assistance of J. P. Barnes and Frank D. Rash, '01. At Hodgenville we had an ample and most delicious dinner. After the nickle-in-the-slot piano had been stuffed and we had been treated to a lecture on photography, we shoved off for the Lincoln Memorial.

The Memorial is truly beautiful and impressive in its simple dignity. It is a worthy companion of the more recent Lincoln Memorial in Washington. The round trip took about seven hours including all stops, and it was well worth the time merely to see the memorial building and the cabin, Lincoln's birthplace, which it encloses, and to get the atmosphere of the place. When added to that was the entertainment provided by Messrs. Clark, Barnes and Rash, and also L. S. Streng, '96, and C. C. Webb, '10, to say nothing of the pleasure of having the ladies along—well, the day could not have been improved. Seven hours is a mighty long time to keep up a running entertainment, but when our quintette fell down, the party never lacked for joy, since the younger guests were always ready to oblige.

The following made the trip: James C. Clark, Jr., '90, Kenneth Clark, James P. Barnes, '05, Mrs. Barnes, Miss Barnes, Lewis S. Streng, '96, Mrs. Streng, John Streng, Miss Ida Helny Streng, Curtis C. Webb, '10, Mrs. Webb, Frank D. Rash, '01, Mrs. Rash and D. C. Jackson, Jr., '21. Mr. Barnes brought as his guest Charles Will, son of the mayor of Louisville. At the end of the trip he apparently was headed for Technology, but something happened and he is entering Rose Polytechnical School this fall.

The Club plans to be somewhat more active in the future in bringing to the attention of the Louisville students the advantages of the Institute. So far we have been more successful outside of the Club than with sons of the Club members. True, J. P. Barnes managed to get his son to Cambridge, but it is a sad tale for he is at Harvard, not Technology. The best that our President, Frank D. Rash, could do was to get his son as far East as Princeton. Better fortune in the future for there are men who are going to Technology from Kentucky. Two are transferring from Centre this fall.

DUGALD C. JACKSON, JR., '21, *Secretary*,  
University of Louisville, Louisville, Ky.

### *Technology Club of Lake Superior*

The Technology Club of Lake Superior had two eventful meetings during the summer months. The first was the Technology Alumni Outing at the summer home of Mr. W. C. Lounsbury, '03, on Lake Minnesung, about thirty miles from Superior, Wis. This meeting was held on Saturday, July 24, and there were about forty present, including the Technology men and their wives and families. The afternoon was spent in boating, swimming and with games, and at 6:30 a wonderful meal was served, including an abundance of choice fresh vegetables and berries from Mr. Lounsbury's excellent garden.

The second summer meeting was held on Wednesday, July 28, at the Kitchi Gammi Club at Duluth, and the honor guest for the occasion was Professor H. W. Tyler, '84. There were eleven Technology men present, and Professor Tyler gave us an interesting short account of his trip through the Yellowstone Park and Glacier Park, and also posted us regarding the new activities at the Institute, which were of particular interest to some of the older Alumni.

Mr. Walter Zimmermann, '98, who has been President of the Club at Lake Superior for the past four years, has been advanced to a new position in Chicago, as assistant western manager with the American Bridge Company, with headquarters at 208 LaSalle Street, Chicago. Before Mr. Zimmermann's departure he was tendered an honorary dinner at the Kitchi Gammi Club at which seventy of his professional friends and associates were present, including many Technology men.

The new President of the Technology Club is Mr. W. C. Lounsbury of Superior.

JONATHAN A. NOYES, '12, *Secretary*,  
1507 Alworth Building, Duluth, Minn.

### *The Southwestern Association of M. I. T.*

The Southwestern Association of M. I. T. burst into activity after several months of quiet. We announced a luncheon for Septem-

ber 13 and altogether had nineteen replies from different men who said they would be on hand. The summer months must have made the fellows a little more forgetful than usual, for only thirteen turned up.

We met at the Kansas City Club at about 12:15 p.m. Mr. Golsam, '12, as usual, took the head of the table. Others with us included Hermann C. Henrici, '06; A. T. Cushing, '11; G. W. Hall, Jr., '23; Alfred W. Hertz, '06; Harry A. Rapalye, '08; John H. Driggs, '21; B. W. Crenshaw, '23; F. H. Littrell, '23; C. E. Brown, '20, and myself. We also had with us Virgil McDaniels, who will go to the Institute for the first time this fall, with advanced standing, and E. G. Weatherly, who will return for his second year soon. Weatherly, who is on the staff of the *Tech Engineering News*, was out scouting for subscriptions among the alumni. Some of us were already subscribers, but he picked up three or four more, two of them with cash on the spot.

While it does not properly concern the Southwestern Association, it would seem to be appropriate at this point to mention the recent visit here of Miss Barnard, from Dr. Dewey's office, on her way back to Cambridge from a trip to the Pacific Coast. Miss Barnard arrived Saturday afternoon, September 4, and was met at the station by John H. Driggs, the Secretary, and Virgil McDaniels, who will enroll in Course XV. We had a dinner at the Kansas City Athletic Club, attended by all the Course XV men who were in town, including John H. Driggs, '21, Richard J. Scholtz, '21, and John J. Falkenburg, '19. The three foregoing brought their wives, but not having one or the prospect of acquiring one, I came alone. Jay S. Kelley, '22, was in Chicago and so was not able to be with us. He travels too much, for he was in Omaha on the 13th and so could not attend the luncheon.

Sunday Miss Barnard had dinner with Mr. and Mrs. Driggs, and in the afternoon went touring Kansas City with the Falkenbergs, making personal calls with Scholtz and myself. Miss Barnard brought word from my former roommate in Oakland, Calif., Edgar D. Deming, '23, XV, to the effect that he was planning to leave the Sturtevant Blower people in San Francisco shortly and return home to West Roxbury. This was news, for Edgar has been too busy to write for some months past.

It was a real pleasure for us to have Miss Barnard with us and to be able to act as hosts while she was in Kansas City. We all hope that she enjoyed the visit as much as we did, and that some day before so very much longer she will be able to come again.

ELTWEED POMEROY, '23, *Secretary*,  
Consolidated Cement Corp., 320 Dwight Bldg., Kansas City, Mo.

### *Montana Society of the M. I. T.*

The summer has "came and went" as has the long eastern trip of the writer and with the first crisp air of the coming melancholy days, activities, Techwise, in the Treasure and Pleasure state have established a new record high, as stockmarket writers would say.

While the writer was away, a dinner was given to George A. Packard, '90, our most efficient representative on the Alumni Council. We were glad to have Mr. Packard in Montana. His efforts in our behalf always are appreciated.

In the northern part of this state there is a city named Great Falls. Do not confuse this with the proposed name of the new fifty-one story building that the University of Pittsburgh is to erect. This city is the home of the main hydro-electric plant of the Montana Power Company and the Technology men in that vicinity are certainly there with the power when it comes to putting over a dinner. The Secretary informed Al Wiggins, '07, Great Falls vice-chairman, on August 23 that the said Secretary would be in his city the following evening and would like to see a convocation of Technology men. Wiggins had only thirty hours to work, but with his characteristic energy he collected a following of eighty per cent at a dinner at the Rainbow Hotel on August 24.

After Delmonico, Jr., had served the dinner and left on his return special train for New York, the party adjourned to the Palm Room where the Secretary palmed off all the information he had received on the building of the new Technology dormitories and the National Technology Center. There was quite a large amount of discussion on the latter project, but when put to a vote, the decision was unanimous for Desmond's project. The meeting adjourned with everybody happy, naturally and not artificially, even though we were near the Canadian border. Those in attendance were A. E. Wiggins, '07; Frank R. Romanoff, '26; Richard W. Plummer, '26; E. S. Bardwell, '06; John G. Fletcher, '26; Carl J. Lundberg, '22; George M. Bates, '04; Ernest C. Van Blarcom, '26, and the Secretary.

The party at Butte, New Hotel Finlen, was complimentary to Dr. Waldemar Lindgren who was in our midst being interviewed by the

local papers. We are more serious than facetious in making this statement as Dr. Lindgren gave to the *Butte Miner* what is probably the most remarkable interview ever given on the future of the Butte camp. He covered a period of a great many years in a few words and the editorials in our papers the next day commended very highly Dr. Lindgren, his logical predictions and the famous institution with which he is connected.

Dr. Lindgren brought up the question of giving to the engineer a fundamental training which would more quickly fit him for an executive and business position. This created a round table discussion which lasted for more than an hour and various suggestions were made as to how the curriculum should be laid out in order to include both technical and business subjects. All agreed that it would be ideal to include both in an engineer's education.

There also was a long discussion on giving more publicity to Technology to help draw more undergraduate and graduate students to her rolls. Technology is getting plenty of publicity in Montana newspapers, but some of the members thought that in addition pamphlets should be distributed to parents of all fourth year students in preparatory schools. The latter idea was lauded, but pronounced impractical at the present time from an expense standpoint.

After all the argumentative spirit had disappeared, the Secretary tore off several reels, narrating parts of his recent trip to the congested and heated centers of America. He told of a dinner that he attended in Chicago on June 4, given in honor of T. C. Desmond. Another dinner was given at the University Club at the national capitol in honor of Professor Robbins who had just finished forty years of teaching at the Institute — and lived through it. This was so well attended that there were more diners than seats in the private dining room, and in looks and actions Professor Robbins was the youngest man in the crowd. Oh, shades of Ponce de León, you sure went south in looking for the famous fountain. It was discovered at Technology years later by Professor Robbins.

The writer then visited Pennsylvania and spent thirty-six hours looking for the Sesqui-Centennial Exposition. From its name we infer that it will take another one hundred and fifty years to complete it. However, he was assuaged in having the honor of meeting our Alumni President, Elisha Lee, '92, who temporarily left an important conference to do honor to Montana and its representative.

In Boston Dennie took us in hand. He guided us through the new buildings, fed us with New England food, a la Walker Memorial, and introduced us to Samuel C. Prescott, '94, Vice-President of the Alumni Association. In Boston we also were highly entertained by Charles W. Goodale, '75, chairman of our local society, George A. Packard, '90, H. C. Burr and W. B. Fisher. We learned at first hand all the latest news of the proposed new dormitories and the National Technology Center. Butte members gave an unanimous vote in favor of the National Technology Center.

To get back to the Butte dinner — after the writer had finished his story, and as a result thereof, it was voted that no bromides would be necessary that night and a standing toast was given to Dr. Lindgren with an invitation to visit us soon again. Those present at this dinner were F. C. Jaccard, '07; Walter R. C. Russert, '18; George H. Holmes, Jr., '24; Stuart Barker, '27; Jesse L. Maury, '25; W. L. Credon, '90; Leonard B. Riley, '27; Samuel Barker, Jr., the guest of honor and the Secretary.

We have talked and written so much about Technology here, there and elsewhere, that before signing off we must tell you that Desmond got even with us and appointed the writer a member of the National Publicity Committee of the Massachusetts Institute of Technology. Thanks, Desmond, for the honor and glory, which we hope does not lead to the grave. Montana will do its part in the future as it has in the past.

Station M-O-N-T signing off (great applause). Good-night.

CARL J. TRAUERMAN, '07, Secretary,  
25 East Broadway, Butte, Montana.

### *Washington Society of the M. I. T.*

The Washington Society of the M. I. T. has been signally honored in the selection by President Coolidge of one of its members to serve as Commissioner of the District of Columbia, one of the highest and most important appointive offices.

The member thus honored is Mr. Proctor Lambert Dougherty, a graduate of Massachusetts Institute of Technology in electrical engineering, Class of '97. After graduation he joined the staff of the supervising architect of the Treasury Department as an electrical

engineer, becoming in turn assistant inspector and then inspector of electric light plants. In 1910 Mr. Dougherty left the government service and joined the technical staff of the Otis Elevator Company, serving in Boston and New York offices until 1919 when he was made local manager of the Otis Company in Washington. His latest position with the Otis Company was that of executive representative of the vice-president in immediate charge of all business done with the government.

Mr. Dougherty has been active in local alumni affairs since coming to Washington in 1900. He has formerly been Secretary and President of the Washington Society of the M. I. T., and was recently appointed a member of the committee which awards annually the free scholarship from the District of Columbia to Technology. He was one of the organizers of the University Club of Washington and is now on its Board of Governors.

Mr. Dougherty has always been active in civic affairs, having served for a number of years as an officer of the Chevy Chase Citizens' Association. He was a delegate from that Association to the Federation of Citizens' Associations and recently was elected to the Citizens' Advisory Council of the District.

The New Commissioner's activity in civic affairs, and the confidence reposed in him by the various civic organizations with which he has been connected makes his choice, by the President, a particularly appropriate one for the District and marks the dawn of a new era for the District of Columbia and its voteless residents.

On Friday, August 6, the Washington Society of the M. I. T. tendered a luncheon to Mr. Proctor Lambert Dougherty in honor of his appointment.

WILLIAM M. CORSE, '99, Secretary,  
810 18th St., Washington, D. C.

### *Technology Club of Bridgeport*

A very lively dinner was enjoyed by fifteen Technology men in Bridgeport, May 14, at the University Club. Mr. O. B. Denison was guest of honor and brought with him many interesting reports of the activities of the Institute. The contemplated plans for undergraduate and Alumni development as outlined aroused considerable interest among the Bridgeport Alumni.

Dennie also brought with him his new double chin which has appeared since the last Technology meeting in Bridgeport three years ago in which Dennie took an active part. It is thought that more frequent Bridgeport meetings with Dennie in attendance would help this condition noticeably.

The more serious part of the meeting was interrupted by a short business session at which the resignation of Mr. Sargent, '93, as President was accepted and former Secretary Max Waterman, '13, was elected President and C. W. Greening, Secretary.

The hospitality of Fred Barney, '19, and Phil Darling, '05, was a noticeable revival of the good old Technology spirit and we finished with the Stein Song at Phil Darling's home in Stratford. An interim of three years produced quite an accumulation of wit and humor in such minds as Carl Graesser's, '05, and Denny was obliged to take notes. We hope the other clubs will be duly appreciative.

CHESTER W. GREENING, '22, Secretary,  
2 Stratfield Rd., Bridgeport, Conn.

### *New Haven County Technology Club*

The New Haven County Technology Club has a well established custom of holding a meeting in Waterbury in the spring of every year. This year it was held at the Waterbury Y. M. C. A. and there were twenty-eight present from Hartford, New Haven, Waterbury, Cheshire and Ansonia. Our good friends, Orville B. Denison and Gorton James from Cambridge, were also there.

After the dinner, Hiram P. Maxim showed a moving picture which he took at the last annual outing of the Technology Clubs at Old Lyme, after which the five reel Anaconda film, which was obtained through the courtesy of the American Brass Company, was shown.

The party finished with an indoor, inter-city golf match with teams representing New Haven, Hartford and Waterbury. The match was won by New Haven, with Hartford second. Ed Davis was the referee.

FORREST G. PURINTON, '15, Secretary,  
10 Murray St., Waterbury, Conn.

### *Technology Club of Fall River*

R. F. Haffenreffer, Jr., '95, our President, proved to be an ideal host at the annual meeting which was held in his bowling alley,



Wednesday evening, April 28. By a unanimous vote of the twenty-four members present, all of the officers were re-elected to serve another year. Charles N. Borden, '89, was elected Vice-President, which office has not been filled since L. L. McGrady, '17, resigned last fall.

The guests of the evening were Zenas W. Bliss, '89, chairman of the Rhode Island State Board of Tax Commissioners since 1912, and O. B. Denison, '11, our Alumni Executive Secretary. Mr. Bliss gave a comprehensive and very enlightening talk on the present day methods of taxation, from the problems which the ancients had to contend with down to the present day methods of taxation. At the close of his remarks, Mr. Bliss was given a rising vote of thanks.

Dennie's account of his recent trips through the South, West and Middle West, was of great interest to the club members. The fact that he addressed more than 9,000 high and preparatory school students, stressing the value of a technical education, proves that he was working in high speed.

After Dennie's talk, Technology songs were sung with every member joining in. Mr. Bliss had to pay his bet to N. Durfee, '89, since his proficiency in bowling could not be proved by his actual demonstration. As far as the other bowlers are concerned, one was as good as the other, although Dick Gee, '20, was rather erratic at times.

When the question of a subscription to the Alumni Athletic Fund was brought up, R. P. Borden, '86, immediately agreed to donate \$20 toward a \$50 subscription. In a very few minutes the \$50 was raised and the Secretary was instructed to communicate the good news to A. W. Rowe, '01.

The officers for the ensuing year are as follows: President, R. F. Haffenreffer, Jr., '95; Vice-President, C. N. Borden, '89; Secretary-Treasurer, A. D. Nute, '17; Executive Committee, C. H. Warner, '89; R. H. Gee, '20; D. S. Owler, '16; H. Smith, '06; S. F. Hatch, '08. The other members present were A. E. Hirts, '13; A. E. Slade, '75; L. L. McGrady, '17 (who was appointed as a scholarship fund trustee for another year); R. P. Borden, '86; Nathan Durfee, '89; Willard Allphin, '25; E. V. Carroll, '22; J. E. Nute, '85; Elliot Peabody, '21; R. W. Reynolds, '88; H. H. Tomlinson, '22; J. J. Winn, '21; Earl Hamilton, '09; K. G. Hamilton, '22; J. S. Coldwell, '19, and L. A. McNally, '18.

ALDEN D. NUTE, '17, Secretary,  
345 Pearce St., Fall River, Mass.

### *The Technology Club of Central Ohio*

The alumni group in Central Ohio was organized for the first time in January, 1926, at the time of the Phantom Radio Dinner. While we have forty men credited to this area, we have not been able to get a large turn-out for that or a subsequent meeting, which was held on April 16. The visit of O. B. Denison, '11, Secretary-Treasurer of the Alumni Association, to a convention at the Ohio State University, which is located in Columbus, was the occasion of our second get-together. We had ten alumni from Columbus and spent an enjoyable informal evening, discussing the past history, present status and future prospects of the Institute. The group was particularly interested in the matter of the regional scholarships and expressed the hope that such a scholarship might be allocated to Central Ohio. Plans were made for at least two meetings annually, one on or about November 15 and the other April 15 of each year.

EDWIN S. BURDELL, '20, Secretary,  
20 South Third St., Columbus, Ohio.

### *Technology Club of New York*

The Membership Committee of the Club sent out letters in June to all members of the graduating class of 1926 of the Institute, extending to them an invitation to apply for membership and explaining the advantages the Club has to offer to the younger men. Since June a good many of the 1926 men have paid us a visit and the Committee has passed on over forty applications for membership. The excellent restaurant facilities which the Club affords and the geniality of its surroundings have proved an attraction to many of the younger men. As a result, the Club is now filled to 110% of capacity. The Club has increased in popularity as a gathering place for dinner meetings of the classes, and 1925 and 1926 dinners are now held monthly with good attendance.

On Thursday night, September 23, a sizable crowd gathered at the Club to listen to the returns of the Dempsey-Tunney fight over the radio. Through the courtesy of one of the members, special arrange-

ments were made for loud-speakers and the evening was thoroughly enjoyed by all those present. It is the intention of the Entertainment Committee to institute gatherings during the winter months in the form of smokers which should prove to be of interest to all members.

Members of the Club are expectantly awaiting the initial issue of the Technology Club bulletin, known as the *Beaver*. Philip Dinkins and Eric Kebbon, Editors, have been ably assisted by various members of the Club and by Ken Reid of *Pencil Point* fame.

One of the prominent guests recently was Dean Burton, who is on from California seeing his son off to Europe. The Dean looked fine and many of the older men enjoyed seeing him. He was one of the guests at the Course XV dinner to Miss Barnard, which was attended by forty-five members of the Course.

Lester D. Gardner, Editor of *Aviation*, has returned from Europe after having flown approximately 21,000 miles on the Continent. He traversed practically all the airways of Europe and has had many interesting experiences to tell. Kaludy Spaulding received a cable from Lester and Charlie Howard from Copenhagen, saying they were drinking a toast to his health.

Thomas C. Desmond, President of the Club, sailed for Europe on September 11 on the *Leviathan* to be gone until Christmas.

William Palmer Gray, '02, of Richmond, Va., was a recent visitor on his return from a trip in Canada. While there he inspected the water power development of the Duke Price Company, the control of which was recently obtained by the Aluminum Company of America.

Henry Lee Warren, '75, spent several days at the Club on his return from the Pacific Northwest. Mr. Warren was one of the pioneers in the mining game in that territory.

George S. Holderness, '22, recently returned from Milwaukee, where he had been on business. The first time George went West his boss accompanied him, but we understand this time he was allowed to go alone.

DUNCAN R. LINSLEY, '22, Secretary,  
Harris, Forbes & Co., 56 William St., New York City.

### *Technology Club of Chicago*

The Technology Club of Chicago held the first get-together party of Technology Alumni in this district on September 17 at the Electric Club. Dinner was served at seven-thirty and dancing was from nine o'clock on. Approximately one hundred and fifty people attended, including the families and friends of members. Classes from '85 to '26 were represented.

This party inaugurates a series of monthly affairs which will last throughout the season. There will be dances, vaudeville entertainments and smokers at which men prominent in Technology affairs and others will speak.

There are about seven hundred alumni in the Chicago district now, and we hope that as our series of entertainments progress we will see many more of them more often than we have heretofore.

JAMES F. DUFFY, '11, Secretary,  
A. E. White & Co., 19 LaSalle St., Chicago, Ill.

### *Technology Association of Minnesota*

The Technology Association of Minnesota was delighted to have a visit on July 27 from our good friend Professor Harry W. Tyler. Professor Tyler was on his return to Boston after spending a vacation with Mrs. Tyler in visiting Yellowstone and Glacier Parks.

A dinner was held in his honor at the Lafayette Club, at Lake Minnetonka, and was attended by twenty alumni, which we consider a very good turn-out considering that it was in the middle of the vacation period. Every one seemed to enjoy the occasion greatly, especially hearing Dr. Tyler tell us of present conditions at the Institute, as well as relating some of his experiences of earlier times.

The officers of our Association are Jesse Shuman, '97, President, and H. E. Young, '06, Secretary.

Among those present were the following: H. W. Jones, '82; G. C. Scales, '88; C. F. Haglin, '13; D. Belcher, '09; W. Y. Chute, '92; Byron H. Clingerman, '04; D. L. Sutherland, '14; W. H. Bovey, '94; Jesse Shuman, '97; Willis Salisbury, '11; F. M. Mann, '94; C. J. Burke, '09; E. A. Merrill, '22; J. H. Greene, '07; J. R. Randall, '07; J. Stone, Jr., '99; A. R. Nichols, '02; M. T. Siverling, '22.

HAROLD E. YOUNG, '06, Secretary,  
15 South Fifth St., Minneapolis, Minn.



# News from the Classes

*News from even-numbered Classes is published in issues dated November, January, March and May. News from odd-numbered Classes is published in issues dated December, February, April and July. The only exceptions to this rule are those Classes whose Secretaries have guaranteed the appearance of notes in every issue. These Classes are: 1895, 1896, 1900, 1901, 1902, 1905, 1907 and 1909 to 1926 inclusive. Other Classes adhere to the alternate schedule. Due to necessary limitation of space, The Review is unable to publish lists of address changes of members of the Association. The Alumni Office, in Room 3-209 M. I. T., will supply a requested address or will act as the forwarding agent for any letters addressed to members of the Association in its care.*

**'68** It is little use for me to try to make a monthly or quarterly, or a yearly report for the Class. We are all old fellows, settling down on our last home stretch. I will simply comment on a few of my classmates with whom I have kept in contact, and wind up with a few incidents of my own.

Appleton is living at his home. He received me very cordially when I called in July. He and his wife are very much interested in the affairs of this town. — Revere has been at most of the annual banquets since he came back to Boston, and is much interested in all matters concerning Technology. He spent part of his summer with his sister, Lady Osler, in Oxford, England. Part of the summer was spent with the salmon in Cape Breton. — While Spofford is much interested in his Alma Mater, he suffers so extremely from deafness that it is painful for him to attend meetings where he can hear nothing. — Wheeler is so far away it is only an exceptional occasion that can bring him to Boston. However, his interest in Technology is very warm.

I spent most of July and August at Snug Harbor Camps on the Belgrade Great Pond.

ROBERT H. RICHARDS, *Secretary*.  
32 Eliot St., Jamaica Plain, Mass.

**'74** A letter from Emerson, written from Honolulu in April and received shortly after the May issue went to press, reads in part as follows:

"I have sent a printed copy of my lecture on 'Kahunas and Kahunaism', delivered before the Pan Pacific Union, April 9. This lecture was given at the urgent request of a number of my Honolulu friends, and treats of a subject to which I have given a great deal of attention . . . From my early childhood until the present time I have been on terms of great familiarity and kindly relations with the native Hawaiians, speaking their language with ease, and studying their customs and peculiarities of thought. Conditions here have changed very greatly and are still changing very fast. The native Hawaiians are largely giving up their Polynesian dialect and when I speak to the younger people of that race in good Hawaiian they usually prefer to reply to me in English with which they are more familiar. Some of the older people tell me that many of the younger people are ashamed of the language of their parents and care not for the really interesting legendary lore of the past.

"I have just returned from my usual half-hour's walk for exercise. Last night scarcely a star could be seen and now the mountains are somewhat obscured by a thin haze of volcanic smoke from the fire streams and burning forest on Hawaii some 180 or 190 miles from here. Were I younger I would take the trip to Hawaii and see the wonderful sights that are drawing hundreds to take passage from this city, but my days of mountain tramping are now over. I have seen a great deal of volcanic action in my day in Hawaii. Now I am satisfied to remain at home leading a quiet and happy life on this beautiful island of Oahu where I have so much to interest me. My best wishes to all my classmates."

A letter from Perkins, written from Pasadena, Calif., also received just after the May number went to press, says, "I hope this letter is not too late, but I have waited for some greater impulse to write than I had but it has not arrived. Life has been somewhat humdrum with me, but I think that is the safest kind of life for an elderly invalid. Here on the outskirts of a beautiful city, danger from passing automobiles is much diminished and jazz in its various forms is not quite so impressive. I have commenced a little rose garden which I hope will some day be pleasant to view from the street. I can hoe with my right hand and

arm and I hope I may some day with my left as they improve. I read a little, play chess a little, take photographs a little, and so on. I study how to improve my diet and think I do, but as I am my own boss, I cannot deny the charge that I am somewhat lax as an executive. I wish I could see you and the other boys. I bought a book the other day with pictures of the Old State House and Faneuil Hall in it and felt a strong desire to renew the scenes of my youth, but I fear I never shall. The climate here is much better for me."

Holbrook has finally left his former railroad position and returned to New England. He has promised to join in the next Class Lunch. The last lunch, which was most social and enjoyable, occurred April 21 and was attended by Barruz, Bouve, Chase, G. T. Elliot, Nickerson, Read and Russ.

We regret to announce the death of Samuel J. Brown, which occurred at his home in Hingham, April 2.

CHARLES F. READ, *Secretary*.  
Old State House, Boston, Mass.

**'77** The Forty-Ninth Anniversary of the graduation of the Class of '77 was held on Wednesday, May 26, at the Brae Burn Country Club at the invitation of Charles A. Clarke, President of the Association.

Golf was played in the forenoon by Andrews, Gray, Hale and Hibbard. Lunch was served about 1:00 p.m. There were fifteen members present as follows: R. D. Andrews, Glenn Brown, Henry H. Carter, Charles A. Clarke, E. W. Davis, W. E. Fairbanks, Linus Faunce, J. P. Gray, R. A. Hale, H. D. Hibbard, B. C. Mudge, A. L. Plimpton, Colonel George F. Quinby, H. S. Southworth and George F. Swain.

The deaths that have occurred during the past year are as follows: Jacob F. Brown, January 4, 1925; John E. Hardman, April 3, 1925; Arthur G. Everett, October 5, 1925; George W. Capan, December 30, 1925; George L. Flint, April 28, 1926. A silent toast was given to their memories.

The present officers, who consist of the following, were continued: Charles A. Clarke, President; R. D. Andrews, Vice-President; and R. A. Hale, Secretary and Treasurer.

A discussion was held regarding the Fiftieth Anniversary which occurs in 1927, and a committee consisting of Messrs. Clarke, Gray and Hale, was appointed to consider plans and with power to add to the committee if desirable.

One of the features of the meeting was the attendance of Glenn Brown, a prominent architect of Washington, D. C., and Colonel Quinby of the State House, Boston, who were present for the first time since graduation. After general conversation and reading of letters from those unable to be present, the meeting adjourned.

RICHARD A. HALE, *Secretary*.  
Essex Company, Lawrence, Mass.

**'80** Nothing has been heard from any member of the Class since the last report. Hence the Secretary has again to record his own doings. In the last number he gave an outline of his proposed tour through various parts of the United States and in the Hawaiian Islands. This tour was carried out according to schedule and apparently with complete success.

The party consisting of twenty-two people, including the Secretary and Mrs. Barton, left Boston on Saturday, June 26, and returning, arrived in Boston on Monday, September 6, exactly on time at 12 noon. The larger portion of the party were teachers and all had a common interest in the geology of the regions traversed.

From San Francisco we enjoyed a seven days' sail over the Pacific

1880 Continued

having a little rough weather on the first two days but with very quiet conditions for the remainder of the voyage. We approached the Islands in the early morning and rounded the southern end of Oahu just as light was breaking. To the Secretary, old associations came vividly to mind as he gazed at the familiar scenes but the members of the party gazed with great interest at the extinct craters of Koko head, Diamond Head, and Punchbowl, at the great Pali Range of mountains in the background, and the city of Honolulu embowered in tropical foliage nestling at the foot of the mountains.

On landing we were at once taken to the Pleasanton Hotel which is beautifully situated in spacious grounds, surrounded by tropical trees, about half way between the heart of the city and the famous bathing beach of Waikiki. Here the Secretary was at once welcomed as an old friend and the party accommodated with fine airy rooms. This was our main headquarters during our whole stay in the Islands. Just opposite the hotel are the grounds of Punahou College, now the University of Hawaii.

Taking the steamer, Haleakala, for the island of Hawaii, we landed at Hilo, the second city in size in the Islands. Thence we were taken in automobiles along the eastern coast of Hawaii, winding down into and out of innumerable gulches, some of which are 2000 feet deep, thence turning across the island over the plains of Waimea, 4000 feet above the sea, and then southward along the western side of the island, crossing thousands of acres and many miles of old lava flows, still naked of vegetation or only sparsely covered, till we reached the recent flow of last April and May which was still warm to the touch and from which steam was still rising. On the other side we found other automobiles waiting for us and we continued to nearly the southernmost tip of the island, then turned toward the famous volcano of Kilauea where we were to make a two-day stop.

At Kilauea, which has been inactive since the great explosion of 1924, we descended to the crater floor and walked two miles across it to the pit of Halemaumau, which is the usually active portion of the crater. The larger portion of the floor is of black lava, pahoehoe, but near Halemaumau this is entirely covered by the debris from the 1924 explosion. Here we also visited the sulphur banks, the crater of Kilauea-iki, walked a half-mile through an underground tunnel in the lava, and saw the tree-moulds where an ancient lava flow had congealed around large trees which later burned leaving deep wells in the now solid lava.

From Wailuku we made the ascent of Haleakala, the largest extinct crater on the earth. Automobiles took us to within eight miles of the summit, the remaining distance being made on horseback over a rather rough trail. From the edge of the crater, about 10,000 feet above the sea, we looked down into this immense opening in the top of the mountain 2500 feet deep and over twenty miles around. The bottom of the crater is partly covered with small cones, some of which are 800 feet high. Words cannot describe the wonders of the scene. We witnessed a very beautiful sunset, then had a hearty supper in the Rest House, and after enjoying the moonlight views we retired to the bunks, sleeping in full clothing and overcoats and wraps plus two or more heavy blankets. The next morning we witnessed a beautiful sunrise above the clouds which shut out all the land and sea below.

Returning to Wailuku for lunch we spent the afternoon in a ride into the picturesque Iao Valley and around the village. Then at 9 p.m. we sailed for Honolulu, arriving there the next morning. After remaining in Honolulu a few days we sailed for San Francisco having a very quiet voyage back.

Just after arriving home the Secretary enjoyed a week's visit from his son, Donald, '11, from Houston, Texas, where for some years he has been Chief Geologist of the Rycade Oil Corporation. From this position he has recently been promoted to be Chief of the Magnetometric and Gravimetric Sections of the Geophysics Research Corporation.

GEORGE H. BARTON, *Secretary*,  
89 Trowbridge St., Cambridge, Mass.

'82 The Forty-Fourth Anniversary Reunion of the Class will stand out in its annals as by far the most delightful in all the years. The story of the event is so well told in the *Winchendon Courier* of June 24 that it is quoted here in full.

"The Technology Class of 1882 held its Forty-Fourth Reunion on Sunday, June 20, making a surprise visit to one of its classmates, Francis Parkman Hall of High Street, whose twenty-fifth wedding anniversary came on that date.

"And a surprise it most certainly was to Mr. and Mrs. Hall. They had been invited over to R. L. Smith's camp at Lake Monomonack

and on their return in the early afternoon they found a jolly company assembled upon their spacious lawn which included nine of Mr. Hall's classmates and their families.

"A delicious lunch was ready to be served from the Colonial hotel of Gardner, which was heartily enjoyed. The favors were old-fashioned corsage bouquets for the ladies and red carnations for the men.

"At the conclusion of the lunch speeches were in order, old times and scenes reviewed and letters from absent members read. Then two cakes were brought on, a large wedding cake which was cut by Mrs. Hall, and a Tech cake which was presented to Walter B. Snow of Boston, Class Secretary. Miss Louisa Hall, daughter of Mr. and Mrs. Hall, was presented with a bouquet of nineteen beautiful roses from her '82 uncles."

"James P. Munroe, President of the Twentieth Century Club of Boston, then presented Mr. and Mrs. Hall with a handsome silver berry dish, which they accepted with sincere thanks for the token of friendship. It was a pleasant occasion befitting the rare June day.

"Those present included Walter B. Snow of Watertown, Mr. and Mrs. Arthur W. Walker of Malden, Mr. and Mrs. Charles D. Jenkins of Boston, Dr. and Mrs. Charles A. French of Belmont, Mr. and Mrs. Rufus F. Herrick of Winchester, Mr. and Mrs. Fred M. Gooding of Waltham, James P. Munroe and Miss Elizabeth W. Munroe of Boston, Alfred L. Darrow of Brookline, John Keyes of Concord, Mr. and Mrs. Francis Parkman Hall, Miss Louisa Hall, Miss Mary A. Murphy and Dean Hall of this town."

A letter from the Halls (Louisa, Maude and Frank) to the Secretary and members of the Class bespeaks their appreciation of the occasion thus: "There are not words enough to express to one and all who helped to make so perfect the gathering in our home on June 20. It certainly was a red letter day never to be forgotten. It would amuse you to hear us rehearse each detail every day. Nothing could have been more cleverly carried out."

To Herrick and Darrow, who acted as a special committee in the absence of the Secretary, must be given all the credit for the unqualified success of the occasion.

Following are extracts from recent letters received from distant members in connection with planning for the Reunion. From Johnson, "I start for Alaska in a very few days, and next year it may be possible that I will come East for our Forty-Fifth. Oh, my Gosh!" — From Rosing, "Sorry I cannot be with you. Trust the Reunion will be eminently successful." — From Thompson, "I wish you all a most joyous time at the Reunion." — From Ayer, "I regret exceedingly that it will be impossible for me to be present." In August, when the Secretary was absent at his summer home, Mrs. S. P. Clark (Carrie L. Rice) called at his office and in his absence was entertained at lunch at the Engineers' Club by Herrick, French and Darrow. Mrs. Clark, from whom we have not heard for years, and whose husband passed away some time since, is now a resident of Los Angeles.

WALTER B. SNOW, *Secretary*,  
115 Russell Ave., Watertown, Mass.

'84 Six members of the Class dined together at the University Club on Monday, June 7. They were: Dearborn, Fitch, Gill, Puffer, Stuart and Tyler. Messages of regret were received from Bunce, French, Hammett, Holder, Lyle, Merryman, Newell, Prescott, T. W. Robinson, Ryder, Ward and Pratt. It is the earnest hope of those present that the other members of the Class who have not been heard from are still in the flesh and that they will note for future reference that the next Class Dinner will be held in early June, 1927.

A recent clipping alleged that one Henry A. Boardman, executioner by profession, had expressed a desire to apply his trade to a member of his own family. The Secretary is glad to make it known to members of the Class whose attention may have been attracted to this surprising bit of news that our Henry A. Boardman is not the person in question. When the matter was called to his attention he wrote: "I am aware that various members of my family have distinguished themselves as ministers, doctors, lawyers — in fact as criminals of all kinds — but I wasn't aware that any of us had had such an elevating influence on his fellow men as this namesake of mine. Just the same, I think this fellow must be something of a nut. Why should a man want to hang his wife for refusing to live with him? If he had threatened to hang her for refusing to stay away from him, it wouldn't be hard to understand.

"As perhaps you have heard, I retired from the Manville Jencks Company early in the year and am now rusticated at my farm on Cumberland Hill. I think my fighting days are over, in bleacheries at least."



1884 Continued

In the absence of any information about other members of the Class, the Secretary is obliged to make this contribution more autobiographical than could be wished. He and Mrs. Tyler, after a brief but delightful visit with Colonel and Mrs. Lyle in early June, proceeded somewhat deviously to Yellowstone Park. An enjoyable episode on the way was a glimpse of F. C. Williams and Mrs. Williams during the stop of the train at Sheridan, Wyo. Williams has retired from engineering practice and is now running a fox farm. It was a matter of regret to the travelers that they could not, in the fifteen minutes available, see more of Sheridan, including the farm as well as the farmer.

After a tour, expanded from the conventional four and one half to ten days in the Yellowstone, we passed through Glacier Park and made a tour of the inside trail to the western exit on foot, bringing back many camera trophies of big game, snow drifts, and so on. The eastern journey was pleasantly varied by alumni hospitality at Minneapolis and Duluth, and by the Great Lakes voyage to Buffalo.

HARRY W. TYLER, *Secretary*,  
Room 2-261, M. I. T., Cambridge, Mass.

**'86** The Class of '86 celebrated its Fortieth Anniversary by a banquet at the Engineers' Club in New York City, on the evening of June 14, and by an automobile excursion up the Hudson Valley as far as Cornwall on the following day. The names of those present are as follows: Van Alstne, Farmer, J. Waldo Smith, Merriam, Aborn, Ricker, Foss, Batcheller, Ingalls, Fogg, Robbins, Anthony, Kimball, Duff, Fred Putnam and the Secretary. Letters and telegrams of regrets, although they outnumbered acceptances, all spoke a word of good cheer. Windsor wishes that we all felt as well and as young as he. Chadbourne, who had expected to be present, was prevented by a sudden and serious illness, and sent greetings by note and by telephone. All wish him speedy and complete recovery with best wishes for better luck at our Fiftieth.

That part of the automobile trip over the Storm King Highway was made doubly interesting by the presence of Ricker under whose direction that celebrated highway was located and built.

Smith explained on the ground some of the problems that had to be solved, and difficulties that had to be overcome in building that vast system of tunnels and reservoirs that go to make up the water supply system of New York, which was designed and constructed under Smith's direction.

Information received from Paris states that Garfield has added to his many honors as engineer of most things electrical in that city by being chosen to preside over the destinies of the Technology Club of Paris.

The many friends of Ball, the genial Secretary of '86, S. M. A., will be glad to learn that he has recently received substantial advancement as Architect to the Fire Department of the City of Boston.

Every member of the Class will learn with sadness of the death of our classmate, Doe, on August 10. Our sympathy goes out to his bereaved family.

ARTHUR G. ROBBINS, *Secretary*,  
Room 1-270, M. I. T., Cambridge, Mass.

**'88** The Secretary learned recently of the death, on May 25, of our classmate, James Albert Gammons. After leaving Technology, he, like many others, started as a draughtsman, later becoming a salesman for the Willimantic Linen Company at Chicago. He was thus engaged until 1897, when he became assistant to the manager. In 1909, he went to New York with the same company where since 1918 he was sales manager. He was unmarried, and lived in Summit, New Jersey.

Frank A. Moore, architect, is now located at 607 Fifth Avenue, New York. — Charles L. Brown, of the Federal Highway Department, Washington, called on the Secretary when north on his vacation last summer.

Stone and Webster, Inc., moved on September 20 into a large office building recently erected in the financial district of Boston. The building faces on Federal, Franklin and Devonshire Streets.

WILLIAM G. SNOW, *Secretary*,  
112 Water St., Boston, Mass.

**'90** An article by Billy Ripley in the September *Atlantic Monthly* entitled "Stop—Look—Listen," was said to have been the cause of a stock market reaction the later part of August. Billy urges further publicity to stockholders on the financial conditions of corporations, and asserts that the Federal Trade Commission should exercise its powers to com-

pel it. The article has attracted considerable attention in the financial world, both for and against. Billy is so busy now at work on a book, that he cannot spare an afternoon even for golf with your Class Secretary.

A New York lawyer calls Professor Ripley, who is of the Department of Political Economy at Harvard and economic counsel to the Interstate Commerce Commission, an "economist" because, the lawyer says, "Professor Ripley combines communism with his economics," but perhaps the professor will survive.

Pierre S. du Pont was awarded, in August, the George Robert White Medal of Honor. This is the highest horticultural honor in America and is made once each year. The award was made to Pierre in recognition of his remarkable work in popularizing horticulture, in extending a love for flowers, and for the establishment of a great winter garden at Longwood, his country home, near Kennett Square, Penna. He has six acres under glass. Any Technology man who is in that vicinity should visit it, as it is open to the public.

Pierre is also the head of the Service Citizens of Delaware. This organization is concerned with educational questions, and Pierre has already contributed more than two million dollars for this work. Twelve schools have been partially built, and plans are going forward for construction totaling over five million dollars in the next two years. The plan is a general rebuilding of the State school program. Pierre not only gives his money, but his time also.

Professor Harry M. Goodwin, at a meeting of the Corporation in June, was appointed Dean of Graduate Students. With Mrs. Goodwin and their son, he spent the summer at Jackson's Hole, Wilson, Wyo. We presume by this time that Harry has become a full fledged cowboy.

— Charles W. Sherman, with Mrs. Sherman, spent six weeks abroad in July and August, three weeks in England and the remainder on the Continent. While visiting Oxford, he ran into Mr. and Mrs. Edward Robinson of our Class, who were accompanied by his son and sister. Charlie is spending part of his time visiting engineering works and the rest in sight-seeing. — Cards have been received announcing the wedding on October 9, of Atherton Loring, Jr., the son of our classmate, to Miss Anna Bowen, daughter of Mr. Stephen Bowen of the Class of '91. — Cards have also been received from Mr. and Mrs. William B. Poland announcing the arrival on May 7, in Paris, France, of Billy, Jr. Billy's address is Morgan, Harjes and Company, Place Vendome, Paris. — Charles Hayden was the donor of the \$100,000 plot of land at East 111th Street, New York City, on which will be erected a branch of the Boys' Club. This will include swimming pools, gymnasias, auditorium, library, and medical and dental clinics.

To protect the quaintness and charm of Cape Cod, prizes were offered architects for best designs for houses of the typical Cape style. The first prize was won by the firm of Howe, Manning & Almy, 101 Tremont Street, Boston, of which Miss Howe of our class is the senior member.

A meeting of the Montana Society of Butte, Mont., was held in June, in honor of our classmate George A. Packard, a mining engineer, who was in the city. Billy Creden, also of our Class, acted as Chairman. George represents this territory on the Alumni Council. He gave the club an interesting talk, and disabused them of the idea that Technology students have no time for outside activities. The evening proved most interesting.

GEORGE L. GILMORE, *Secretary*,  
57 Hancock St., Lexington, Mass.

**'91** The Thirty-Fifth Reunion of the Class of 1891 was held at East Bay Lodge, Wianno, Mass., on June 11, 12 and 13, 1926. Thirty-eight members of the Class gathered. The weather was perfect, and the program was carried out as scheduled. Those present were Blanchard, Bradlee, Bird, Bryant, Barnes, Bassett, Capen, Clark, H. I. Cole, Dana, Ensforth, Fiske, Forbes, Fuller, Garrison, Gottlieb, Howard, Hatch, C. F. Hammond, G. A. Holmes, F. C. Holmes, A. N. Mansfield, F. Clouston Moore, F. Campbell Moore, Pratt, Putnam, Punchard, Read, Ryder, Steel, Swan, Spooner, Tappan, Gifford Thompson, Vaillant, Wilder, G. H. Wetherbee and Whitney. Twenty-four left the Copley-Plaza Hotel in Boston, Friday morning and arrived at Wianno in time for lunch. Others motored from New Bedford, Middleboro, Hartford and Plymouth.

Friday afternoon was a general get-together to renew old acquaintances, and a few tried out the Wianno Golf Course. White felt hats with bands of class colors were provided, and also souvenir pipes. After dinner there was an auction bridge tournament with Barnes winning first prize which was a leather bound dictionary. Steel won, as second



1891 Continued

prize, a silver match box holder and ash tray. Hatch, the booby, won two packs of cards.

A golf tournament was held Saturday morning. Blanchard won the prize for best gross score with 87, the prize being a silver vase. Ensworth won the best net with 101 gross and 81 net, this prize being desk shears and paper cutter in case. Bradlee made the best shot, at the pond hole, landing on the bank after five skips on the pond (The Secretary counted them). Forbes, Spooner and others made an untiring, if not enthusiastic, gallery. Presumably the lack of enthusiasm was no fault of the gallery. At that, Blanchard's 41 coming in was not so bad for the old guard.

Horace Ensworth was ever present with his movie camera and incidentally cost the Secretary a \$1.00 golf ball. If you think it is a simple matter to make a good drive with a movie camera clicking away within a few feet, try it.

At two o'clock came the *pièce de resistance*: the Clam Bake on the beach. The memories of a similar feast five years ago simply whetted our appetites. Baked oysters were added to the usual clams and lobsters. Billy Bryant again distinguished himself, demolishing four lobsters this year against only three, five years ago. The movies of this event ought to be enlightening as to our gastronomic ability.

After sufficient time for recuperation and digestion, came the horse-shoe pitching contest with official national league shoes sent from Ohio by Moore. Howard Forbes won first prize — a silver opener and cork-screw. We have talent in the Class which is only just being unearthed.

Saturday evening was the official dinner meeting, with statistics and lantern slides. Songs enlivened the occasion, with Gottlieb at the piano and the Secretary, aided and abetted by Barnes, trying to lead the singing. John Putnam furnished sample glasses of jelly made by his daughter who has a jelly kitchen near New Haven, Conn.

After the dinner a number of telegrams and letters were read from the following on the Pacific Coast, where George Hooper has been active in keeping in touch with our growing delegation: Hanington, Shattuck, Richardson, Hersam, Leland, Alley, Wilkinson, Ludington, Roberts, Viele, McKenna, Scudder and Hooper.

Young, Bowen, Damon were abroad; Wilson was on a trip to the Coast; Hopton had just attended the graduation of his son at Technology and could not come.

Charlie Aiken was unable to attend on account of his wife's illness. In his letter of regret he mentioned his resignation as Class Representative on the Alumni Council and the Secretary was elected in his place. He will continue on the Council, however, representing the Technology Club of New York. The Secretary resigned as representing the Technology Club of Virginia at Richmond, and Arthur Hatch is to represent that Club on the Council.

The Secretary read a circular letter from the Alumni Association outlining the two main projects now under way, namely, a Technology Centre in New York City and the Alumni Dormitory Fund. "The former benefits the Alumni, the latter the students, and both the Institute itself." Further information will be sent to Alumni from time to time. We are asked to give these matters our careful consideration and in due course our support. Every '91 man should be a member of the Alumni Association, which is the least he can do to support the Association and its work.

The Secretary received replies to 101 questionnaires and presented statistics and comments, some of which follow.

A list of present occupations shows thirty executives, twenty-two engineers, eight retired, six architects, five in private business, five professors, five in insurance, four editors or writers, and two each for real estate, the law, the ministry, and public life. There were several scattering occupations.

Ninety-five are married and six not married. Ten have no children, twenty-seven have one, twenty-five have two, eighteen have three, four have four, two have five, and one has six (W. J. Roberts). There are two sets of twins (Wason and Bell). Totals reveal seventy-seven boys and eighty girls. Twenty-six have one married child and four each have two and three married children.

There are twenty-nine grandfathers. Thirteen have one grandchild, nine have two, four have three, one has four, and two have six (Howard and Hawley). The totals are thirty-four grandsons and twenty granddaughters.

The oldest children are Harry Young's daughter, Philip Marquand's son, and Howard Dill's daughter, all thirty-three. The oldest granddaughter is twelve (Dill) and the oldest grandson, eight (Young).

Golf leads as a favorite sport with nineteen, and tennis follows with fourteen. Then come walking, autoing, boating, fishing, swimming, billiards, riding, and mountain climbing.

Five play the piano, three sing (the Secretary couldn't qualify), two play the violin, one the organ, and one the cello. We are a little weak for either an orchestra or choral society.

Politically, there are fifty-five Republicans, four Independents, and one acknowledged Democrat.

About every religion is represented, the leaders being Congregational, twenty-four; Unitarian, fourteen; Episcopal, thirteen; Christian Science, six; Presbyterian, four.

There are fifty-three smokers to thirty-seven non-smokers, and forty-six non-drinkers to thirty-seven drinkers, the latter proving conclusively that there is still some unconsumed pre-Volstead liquor.

The hobbies are too numerous to mention — with reading, radio, flowers, music, auction, travel and photography in the lead. "Modeling antique furniture for doll houses," "building a railroad for a small boy" and "grandchildren," show that we are approaching second childhood, which is as it should be.

Twenty-three members have held public office, two as mayors, three in state legislature, and so on. Nine have written books and seventeen, articles or scientific papers.

Eighty-three say they would go to Technology again, while eleven say they would not. Many say they would go to college first.

Eleven have children who have gone to Technology, three have children in Technology, and five are going there.

It appears that '91 has many men who are at the top of their profession, or known country-wide for their work or position. For instance, Will Bassett is a metallurgist with the American Brass Company; F. C. Holmes, General Manager of the Plymouth Cordage Company and an expert on cordage, jute, hemp, sisal, and so on; Morris Knowles, in municipal engineering and zoning; Harry Bradlee is senior Vice-President of Stone and Webster, public utilities; Leonard Wason, President of Aberthaw Construction Company, concrete construction; Linfield Damon, Vice-President of United Hotels Company, hotel design, construction and equipment; S. W. Wilder, President of Merimac Chemical Company and chemical expert; Dana, F. Campbell Moore and Fiske, fire protection, insurance, and automatic sprinklers; Elisha Bird, artist and designer with the New York Times; Joseph Warren, Manager of the Warren Company, high grade paper; Arthur Howland of Wadsworth, Howland & Company, color expert; also a number who own, manage, or control important industrial properties, such as Adams, Bowen, Dart, Douglass, Earl, Fuller, G. A. Holmes, Marquand, F. Clouston Moore, Palmer, A. R. Pierce, Ricker, Steel, Viele, Whitney, Winkley and Young.

After the statistics came perhaps the most interesting part of the program, the showing of 126 lantern slides, all made from pictures taken while we were at Technology. The slides were made by Stone and Webster, and Gorham Dana furnished and operated the lantern. One hundred and twelve of these were of individuals and a prize was offered to the one who guessed the largest number correctly. This was won by F. Campbell Moore with eighty-seven, the prize being a picture frame. The Laboratory Shop and other groups, as well as many of the individual pictures were very amusing and as a whole not very complimentary from the standpoint of looks and costumes, judged by modern standards. Perhaps nothing could so well have brought to mind our days at the Institute.

Sunday morning was chiefly devoted to rest and conversation with a few energetic golfers taking a last shot at the Wianno Course. Most of the autos left for Boston and elsewhere after lunch.

The hotel accommodations and food were wholly satisfactory, the location unusually picturesque. Apparently everyone had a good time and was sorry when it was over.

The Class is indebted to Charlie Garrison who went down a day ahead and looked after the hotel accommodations and clam bake; to Fred Blanchard for looking after the sports; to Gorham Dana for looking after the program, hats, and lantern slides; to Frank Howard for looking after transportation; to Horace Ensworth for his movie camera (this will be heard from later); to Will Wilder as a finance committee to help pay the bills. Our President, Harry Bradlee, presided at the dinner, looked after our general welfare with entire satisfaction and helped our friend Barney Capen (Barney improved so much in the three days that a week more would have had him running around like the rest of us). The Secretary took care of the loose ends, which, after all, is his job.

It is hoped to have a get-together dinner in Boston next winter and see the movies and perhaps show the slides for the benefit of those who could not attend the Reunion.

HENRY A. FISKE, Secretary,  
260 W. Exchange St., Providence, R. I.

**'92** No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review office. Members of the Class having news or inquiries should address them to John W. Hall, Secretary, at 8 Hillside St., Roxbury, Mass.

**'94** On Wednesday, July 21, occurred the marriage of William Herbert King and Miss Martha Schlegel, at St. George's Chapel, New York. The Class extends warmest congratulations to Billy and also to his bride.

C. W. Dickey has established an office in Honolulu, and taken up his residence there, after living for many years in Oakland, Calif. His new business address is Damon Building, Honolulu, H. T. — S. H. Thorndike of Fay, Spofford and Thorndike, is now located in the Waterman Building, 44 School Street, Boston. — R. B. Price is in Paris where he expects to be domiciled for the next year or so. His address is 92 Rue de Bac. A personal letter from him a few weeks ago was greatly appreciated by the Secretary.

R. W. Gilkey, who has long been associated with the New York water supply projects, is now living at 173 80th Street, Brooklyn, N. Y. — F. P. McKibben sends Black Gap, Franklin County, Penna., as his new address since leaving Schenectady and Union College at the end of the last academic year. — T. G. Richards is once more back in Massachusetts. The Secretary has not seen him yet nor found out what he is doing, but his address is 8 Newport Road, Cambridge. — F. P. Simonds is Vice-President of the Thomas M. James Company, 342 Madison Avenue, New York. — C. G. Abbott continues to get a large amount of space in scientific and other periodicals as a result of his life work in measuring the variations of the sun. Science Service in a mid-summer number of *Science* had an article on Measuring the Energy of the Sun, which dealt with Abbott's work in the past and his plans for a new solar observatory in Southwest Africa.

SAMUEL C. PRESCOTT, Secretary,  
Room 10-405 M. I. T., Cambridge, Mass.

**'95** Lest we forget! We are entering a new year with this issue of The Review and your Secretary begs to thank those who have assisted in making possible the record of the past year.

Forward! May we count on your further support, and to those who have been too busy, will they stop, think, and write a line so the other fellow may know that they are still living?

The Thirty-First Reunion of our Class is a matter of history. It was held at the Riversea Club, Saybrook, Conn., on June 11, 12, and 13. The Riversea Club is ideally situated on the Fenwick peninsula overlooking the sea, Long Island Sound, and the Connecticut River. Close by is an oak forest which lends beauty to the entire setting.

It was previously arranged to hold our Reunion in conjunction with the Twenty-Fourth Reunion of the Class of 1902. Indeed, we were fortunate in this privilege as they have always proved to be a most delightful, splendid set of fellows and in this case most gracious hosts. Your Secretary begs to take this opportunity to express openly our great appreciation of the many courtesies extended to us by the Class of '02, for without them, life at Riversea would have been decidedly less interesting.

Several of the boys arrived Friday afternoon and the balance on Saturday morning. E. C. Alden drove in from Hartford, E. L. Hurd came from Milton and T. B. Booth from Boston. George A. Nichols, with Mrs. Nichols, drove from New York and Henry D. Jackson also came by motor from Newton Center. Mr. and Mrs. Charles E. Littlefield were on hand, and L. K. Yoder arrived by train Saturday morning. Thus there were nine of us. Although few in numbers we consoled ourselves with the many reports of regrets from those who could not come and those who had planned to come but did not.

However we were deficient, '02 came to our rescue and the Reunion would have been incomplete without Hunter, '02. Fred indeed was a genial and enjoyable host.

E. Alden, the fish of the party, immediately took his dip in the briny deep, while the more sedate arranged their golf tournaments. We are glad to admit that '02 plays good golf, but better golf must be the word to approach the prowess of '92.

The great event of the Reunion was the combined bridge tournament played on Saturday evening. Here again '02 was the host, and '92 in part acted "the lady." While there were some ladies, there were not enough to go around. We enjoyed immensely, however, all the ladies

who attended the Reunion. Your Secretary was fortunate in winning one of the booby prizes, which he much values.

Refreshments were served in the form of stunts, and every one enjoyed their "trip in the aeroplane," the "hypnotic induction," and the "gyroscope." Golf and tennis abounded, but no less important were the meals, universally known as par excellence. We retired on time but at a late hour.

Ninety cards were issued to the members of the Class living within a radius of two hundred miles. Nine veterans eventually came to muster. Last moment regrets came from Arthur Canfield, Gerard H. Matthes and James Humphries. Miss Emery wanted to be remembered to all the boys. Johnny Moore wired as follows: "You stand beside the raging sea and listen to its roar, which seems so loud because the crowd lacks Johnny Joseph Moore." We were indeed sorry that more classmates could not find it possible to attend.

A letter from Fred B. Cutter reported the following: "The New York members of the Class of 1895 held a luncheon at the Engineer's Club, 32 West 40th Street, on May 24. Those attending were Ames, Birge, Canfield, Claffin, Henry Crane, Fred Cutter, Donham, Green, Huxley, Moore, Nichols, Park, Parmelee, Schmitz, Sheridan, Sloane, Wiggan and Wolfe." Alfred P. Sloan, Jr., President of the General Motors Company, talked about the present automobile conditions and John D. Moore gave a résumé of the political situation.

We learned at a late date that Frank A. Bourne, Architect, Boston, was in Florida and attended the National Conference on City Planning at St. Petersburg.

At the annual meeting of the Technology Club of Hartford, held at the City Club on May 15 last, E. C. Alden was chosen President for the ensuing year. Congratulations to Eddie!

A most interesting letter was received from Arthur A. Coburn from Henniker, N. H. Arthur's career has been a varied and interesting one. After some years of experience in constructing and operating steel mills in the Pittsburg district, he drifted to Chicago and assisted in building the Gary Plant at Gary, Ind. Eventually he passed to the Philadelphia Navy Yard and then to Portsmouth, and finally to Hog Island where "he built more ships in shorter time than any man in the world." Arthur is now interested in apple, poultry, and stock plantations in Henniker and Hillsboro, N. H., and is fast developing into a real Yankee. He wants the boys to drop in to see him as they pass by.

The deaths that have occurred during the past year are: F. C. Hatch, November 23, 1925; E. J. Loring, December 28, 1925; Julius H. G. Wolf, January 15, 1926; Charles H. Parker, January 24, 1926; W. Powel Robins, February 6, 1926; and James W. Thomas, May 13, 1926. "Let taps be sounded."

Like bread to the hungry, your Secretary is patiently waiting for news from those who have not yet replied.

LUTHER K. YODER, Secretary,  
Chandler Machine Co., Ayer, Mass.

**'96** The big item to report at this time is the account of our Thirtieth Anniversary. Advance publicity of the event had been given in previous issues of The Review and this was supplemented by three formal Class Bulletins, the first two of which were sent to all members of the Class, and the last one to such members as had given an indication that they planned to attend. In accordance with the vote of the Class the Reunion was held at East Bay Lodge, Osterville, Mass., from June 17 to June 20, inclusive, and it was a stag affair. We had thought five years ago that it would be impossible to find a better place than the Wianno Club, but all who attended this year agreed that East Bay Lodge, under the administration of its proprietor and host, Charles H. Brown, was about as near ideal as could be obtained.

The early replies raised the hope that we might this year exceed the record of seventy-three men who attended our Twenty-Fifth Reunion, but several unexpected changes at the last minute cut down our number so that the total male attendance this year was only sixty-two. It seemed as if an epidemic of hard luck hit some of the men and kept them away. Among those who disappointed us in this way were Burgess, Clifford, Coristine, Drum, Dyer, Elliot, Fisk, Fred Fuller, Gilman, Harrington, F. A. Howard, Hultman, H. K. Jones, Melliush, Nevin, Robinson, Russell, Sjöström and Spahr. It will be readily seen that if all of these men had come we would have had a banner attendance. To offset this, however, there appeared this year ten new men who had not previously attended any reunion. These were Ashley, Bakenhus, Will Coolidge, Jackson, Morse, Pauly, Herbert E. Smith, Jim Smyser, Sturm and Tozier. Since the hotel was open for the season a few of the men brought their wives along,



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although ladies did not actively participate in the Reunion. The ladies present included Mrs. Young, Mrs. Morse, Mrs. Smith, Mrs. Ashley, Mrs. Bakenhus, Mrs. Tilley and Miss Tilley.

The first people to arrive and register were Con Young and Lou Morse, who had come up with their wives in Young's car from Washington and arrived on Tuesday, June 15. They were followed by Bragg and Tozier who came on June 16. The foregoing were able to get a little rest before the regular opening of the Reunion. The advance guard of the regular crowd consisted of Joe Driscoll, Howe, Jim Driscoll, Stearns, Hurd, Anderson, Allen and Damon who left Thursday forenoon in Joe Driscoll's and Damon's cars and arrived in time for lunch. The big gathering this day was at the Engineers Club in Boston at noon and six cars transported Leighton, Barker, Hallaran, Hewins, Wayne, Davis, Moat, Underhill, Arthur Baldwin, Sturm, Will Coolidge, Locke, Harry Brown and Rockwell, all arriving in time for dinner. In this crowd Coolidge and Baldwin had driven on from Schenectady. Other arrivals on this first day were Tilley and Lawrence who came in Tilley's car from New York, Bates and Peirce who came by train, and Tyler who came over for the day as he had his family located at Pocasset for the summer. Mention should also be made of the arrival of Buster Crosby, who came with all his baggage from his home in Osterville and spent the entire time with us at the hotel. Information was lacking as to whether he had run away from home or had been locked out and no one pressed the question as long as we had the satisfaction of having him with us. The big opening day of June 17 was a fine day to drive over the road. The early gang had been doing some golfing but the late arrivals satisfied themselves with eating dinner, followed by talking, card playing, and various other pastimes.

The next day, Friday, the eighteenth, opened cloudy but fortunately the rain was very slight and did not interfere with the golfers and about the middle of the afternoon the clouds all rolled away and the sun came out. More arrivals on that day were Merryweather, Ben Shepard and Pauly, who came by train; Jim Smyser, Pierce and Jackson, in Jackson's auto; M. L. Fuller and Hersey, in Hersey's auto; Mansfield and Thompson, in the latter's auto; the Hedge brothers in their own car; and Root all by himself in his auto. In addition, Rutherford drove over to visit us from Falmouth, but went home at night, only to come again the next day. Apparently he did not have the pull to obtain a three days' license similar to Buster Crosby's. This was the day that Fred Ashley appeared in the afternoon. He had planned his cross country trip from Los Angeles to coincide with our Reunion and on arriving in Boston he secured the services of Dr. Chenery as chauffeur for himself and his wife to Osterville. Their stay with us was all too short, arriving as they did in the afternoon and having an early dinner in order to be on their way and keep up to their schedule. His appearance made Ashley the long distance man of the Reunion. On this day Sturm chased all over the country in the forenoon looking for a favorable fishing pond. As a result, in the afternoon, he with Hurd and Rockwell secured the services of a guide with all the necessary elaborate paraphernalia and undertook to fish. It was fortunate that the gang had not depended upon these fishermen for their supper because the results of the afternoon were practically nil so far as fish were concerned. At one time Sturm thought he had something big on his line, but investigation showed that in casting he had caught Rockwell on his hook. In spite of the poor outlook in the morning two carloads of fellows made the trip to Provincetown, which many of them had never seen. The golfers took to their links and during the day the men were rather widely scattered, but a few always remained around the hotel to welcome any new arrivals. The evening of this day was spent without any formal exercises but each one followed his own desires. So far as known no one retired early. One event of the evening was the receipt of telegrams from Woodwell stating that he proposed to come by airplane the next day and asking where he should land. Proper instructions were sent to him.

Saturday, the nineteenth, opened as a fine day. Skip Brackett was the first arrival, followed later by Bakenhus and Mrs. Bakenhus. Woodwell had sent us word that he would be due about 2:00 p.m. and he arrived in a hydroplane very close to the appointed hour, but his landing was in West Bay instead of East Bay, so hardly any of the fellows were on the spot to greet him. Later arrivals were Maclachlan and Tucker in Tucker's auto; Herbert Smith with Mrs. Smith, by auto; Beaman, from New Bedford; Harry Baldwin, Wise, P. B. Howard, Sears, Grush, Callan and Partridge. This finished the registration and made the total of sixty-two men plus seven ladies. This was the evening of our Class Dinner which was an informal affair. Attendance

was only fifty-nine since Chenery and Ashley had left the day previous and Dan Bates had been obliged to leave Saturday afternoon in order to see his boy off from New London early Sunday morning. At the dinner, after the inner man was satisfied, the program opened on telegrams from Al Drum and Fred Fuller who extended greetings to all and expressed regret that they had been unable to be present. Drum's son had graduated from the Institute early the preceding week and he had not felt that he could stay over to the Reunion as he had originally hoped. Fred Fuller had a very bad cold which made it unwise for him to go out. In addition to these telegrams various letters had been received by the Secretary and placed on file along with photographs of preceding reunions and other Class data so that all the men could have access to them during the Reunion. On the next item of the Secretary's report of the last meeting the Class voted to omit the reading. The Secretary did make a brief statement of the condition of the funds, which showed a balance on hand of general fund of \$765.84. The scholarship fund, to which \$6012.00 was pledged by the men who attended the Reunion five years ago, showed that \$4267.00 had been collected and turned over to Technology, leaving a balance of \$1745.00 to be collected. On the book fund the amount pledged by the underwriters was \$1052.00. The amount spent to date was \$157.13, leaving a balance of \$894.87. After successive efforts to secure replies from members who had not filled out their questionnaires the committee finally decided that we could not wait any longer and must proceed with the final preparation and printing of the book. Accordingly, this is actively going on and it is hoped that it will be in the hands of the Class before the end of this year. The old '96 quartette interjected a song at this stage which was finely rendered and well received. At the suggestion of J. E. Woodwell the members present signed two sheets. On one the Secretary later sent a message of sympathy from the Class to Mrs. Woodbridge, the widow of Professor Woodbridge, who died recently, and the other contained greetings to Mrs. D. T. Woodwell of Newburyport, the 101 year old grandmother of Woodwell himself. J. Lloyd Wayne was then recognized and with his assistants he brought forward a scientific curiosity which had been discovered by Rutherford and which was duly presented to the Class as its official mascot, entitled Waggle-Woggle. This was duly passed along to the custody of Rutherford to be maintained as the official mascot of '96. Santa Claus, in the person of Merryweather, presented gifts to various illustrious members of the Class as follows: To Dr. Coolidge, the original X-ray apparatus; to the Hedge brothers, two official badges of their office; to Rockwell, a complete fishing outfit including the fish; to Sturm, a model hospital showing how he should design such buildings; to Damon, a keg to be used as he saw fit; to Partridge, a book of wisdom; to Leighton, an eye-piece for his microscope; to Underhill, a 1930 model automobile; to Morse a real refrigerator; to Shepard, a combination foot rule and pencil; to Tucker, a model hen which worked and laid eggs; to Howe, a miniature loving cup for the man from the greatest distance attending the dinner.

Dr. Coolidge followed with an all-too-brief account of some of the wonderful things that are being done in research at Schenectady in which, in his modesty, he failed to indicate the rôle which he had played. It was fine to receive at first hand this information on some of the remarkable things that are being learned about matter and how far they have progressed since our day at school when the atom was held to be the ultimate division of matter. When one considers Coolidge's work on electric light and on X-rays it seems safe to say that he has probably done more than any other member of the Class for the direct benefit of humanity. At the close of his talk he gave some very interesting illustrative experiments. The Secretary announced that Partridge was very desirous of having classmates call on him at any time at his church, which is St. Ann's Episcopal Church on East Cottage Street, Dorchester, where he would be glad to tell them of his plans for making a community center and show them what he had already accomplished. The Class voted to extend educational aid to the crippled son of our late classmate, J. Porter Palmer. The meeting finally closed with another song from the old '96 quartette. For those who do not remember this quartette it should be said that it consisted of Barker, Leighton, Stearns and Young. It had only two pieces which it could sing at our dinner, but it staged a wonderful come-back.

Among the side-lights on the Reunion was the wire from Woodwell on Sunday stating that he had arrived safely home at Garden City at 10:30 a.m. after a flying time of two hours and two minutes from Woods Hole. Beginning Sunday morning the fellows were departing all through the day; about a third of them had gone by noon, and practically everybody by night. All agreed that we had had a most successful party. So far as is known, A. D. Maclachlan was the only man who



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indulged in an ocean bath, although there may possibly have been others who did not report it. No official scores were kept of the golf games, but there was a great rivalry between Underhill and Tilley as to which of them should stand at the head. Wayne surprised all of us with his great form in tennis and his ability to put it all over some of the other fellows at this game. The motorists enjoyed trips around the country, including those who went to Provincetown, but probably the most enjoyable trip was that made to Rutherford's home at East Falmouth, where Mrs. Rutherford dispensed lavish hospitality which included some of the famous fresh Rutherford strawberries. Rutherford, with his characteristic generosity, brought over twenty boxes of his product for the Class to eat and they were as delicious as those served in the dining room.

Compared with past reunions the record of attendance is as follows: Ipswich, 1906, 18; Squam Lake, N. H., 1911, 21; Saybrook, Conn., 1916, 51; Terrace Gables, Falmouth Heights, 1920, 22; Wianno, 1921, 73; East Bay Lodge, 1926, 62. Six men had a perfect record of attendance at all previous reunions. These were Grush, Hersey, Locke, Rockwell, Thompson and Wise. All of these men were present this year, thus still holding their places on the honor roll.

One guest who did not officially register but who appeared to enjoy every minute was Tozier's little white dog, who added to the gaiety of the occasion.

In reply to the transmission of the best wishes of the Class to Mrs. Woodwell, a letter came from her daughter carrying the mother's message of appreciation with the wish that the members of the Class might have many more pleasant reunions at which times she would like to send them greetings.

From Mrs. Woodbridge in Portland, Conn., came also to the Secretary a grateful acknowledgment of the message from the Class stating how deeply she had been touched and how much her husband had loved the students to whom he gave the results of his painstaking study. Mrs. Woodbridge especially desired that her message be given publicity so that each member of the Class might receive it.

In preparation for the Reunion a gang assembled for dinner in the Walker Memorial at Technology on June 2, and there were present Davis, Emerson, Myron Fuller, Hersey, P. B. Howard, Locke, MacLachlan, Partridge, Rockwell, Tucker, Underhill and Wise. It was at this meeting that Perl Underhill was made a committee on transportation and everyone will agree that he did a 100 per cent job in providing cars for car-less men, and in providing companions to travel with carmen. That evening Rockwell told of his recent fishing trip to Chesapeake Bay with Ben Hurd; Partridge gave the tale of his difficulties and legal troubles with the trustees of his parish who were not in sympathy with his idea of spending money toward what Partridge calls his Little Technology in Dorchester. Shortly after this the newspapers gave considerable publicity to the church squabble. Partridge also announced that he was going to Camp Devens in July as chaplain of his regiment and invited classmates to visit him at camp. MacLachlan told about his recent trip with Mrs. MacLachlan to Cuba and Fuller gave advance information regarding his next foreign trip which was due to begin in July. He was then stopping at his summer camp. Tucker was busy farming in North Andover and his particular job in June was the spraying of his large orchards. Hersey had nothing special to report beyond announcing the arrival of another baby in his family, which now counts him up to two.

Although no official photographer was appointed, Tozier, by virtue of his connection with the Eastman Kodak Company, was given this office by common consent. He prepared an enlarged group of the Reunion which was sent to all members present, along with some smaller pictures. The last report from him was that in connection with the Schenectady crowd he was working up the reels and titles for all of the moving pictures that were taken by various fellows during the Reunion. It is expected that these will shortly be available to pass around to any men who have facilities for running them off.

Advantage of the Reunion was taken by classmates to put one over on the Secretary who was dumbfounded to receive from Arthur Baldwin at the end of August a substantial check for funds which had been collected by a voluntary committee consisting of Baldwin, Coolidge, Pauly and Stearns. With the check came a particularly fine letter which the Secretary prizes as highly as the money tribute. The action of the committee must have been known to every classmate with the single exception of the Secretary himself who had not the slightest suspicion that anything of the kind was on foot until the final presentation was made. The effect was that the Secretary was completely overcome and was able to reply by a rather irrational note of thanks to the committee. Having now recovered somewhat from the shock, the Secretary wishes

to express to classmates, one and all, his gratitude for the affectionate tribute and to tell them that if he ever had entertained any notion of resigning he could not do it now after having had his salary paid for so many years in advance.

The Secretary reported that he had lost track of Justin Campbell, but perseverance has relocated him in a hospital in Cleveland. George Merryweather visited him and reported that he had undergone some very serious operations involving complete internal rearrangements. At last accounts he was sitting up in bed and would shortly be going around in a wheel chair. By the time *The Review* goes to press his period of convalescence should be well over. He reached the stage where he was able to fill out his data sheet for the Class Book.

After being twenty-five years with the Eastman Kodak Company in Rochester, Tozier was transferred, on October 1, to Toronto, where he will be in the Toronto factory of the Canadian Kodak Company. This means quite a change after a man who has been situated in one place for so long a time, but he is looking forward to the new line of work which he expects will be very interesting.

Jacobs reports his arrival back in Burlington, Vt., the latter part of July, after his sabbatical year in the West, and is now again on his job of teaching in the University of Vermont. As previously reported he returned to the Hawaiian Islands after the volcano began to erupt so that he could make a study of it in action. He then came back to the Southwest early in June and spent much time around Grand Canyon and the mining districts, making a special study of geology. Unfortunately he developed sciatica en route and had to stay over several days at Colorado Springs to get limbered up so that he could continue his automobile trip. This malady still continues in spite of the osteopaths, homeopaths, and other paths he has followed. Incidentally he stopped over in Rochester to see Haste and Tozier and although he had a wonderful year in every way he says that it seems good to get back home again.

The Secretary made a trip to Ontario in September by automobile, circling around to end at the Technology Summer Mining Camp in New Jersey. He tried to see classmates en route, but did not meet with much success.

Two sons of '96 men are coming to Technology this fall: Arthur Baldwin's son Edward, transferring from Williams, after having spent the summer at the Institute doing work to make the transfer possible; and Joseph Harrington's son Joe, coming from Illinois as a transfer student with advanced credit. Joe called upon the Secretary on September 24 with his son, and gave a satisfactory explanation of his failure to appear at the Class Reunion in June. It seems that on June 1, Joe was extremely busy with the formation of a new company, called the Joseph Harrington Company, of which he is President, and which manufactures the King Coal Automatic Stoker which represents the climax of Joe's long experience in the development of automatic stokers.

Andy MacLachlan has finally married off his last child. Announcement was received of the wedding of Kathryn Butters to Wallace G. MacLachlan on September 11, so that Mac and his wife are now free to go away at will and fly anywhere in the world that they please.

A long and breezy letter from Victor Shaw, written at Loring, Alaska, in July came to the Secretary. Unfortunately space does not permit the insertion of this letter here in toto, but it seems that Shaw is now following a bent for hunting, fishing and writing, which is exactly what he has wanted to do for a long time. His writings are for the *Adventure* magazine and he says that he has been so busy with his trade of scribbling fact and fiction, and chasing deer and wrestling with ferocious trout for his daily dozen that little time was left for correspondence and he has been absolutely unable, so far, to do prospecting of some likely looking mining areas in Alaska. In addition to his regular magazine articles he is also busy on a novel entitled *The Swivel-Neck* which he expects to have completed some time this fall. He says that he and his wife are very comfortably located in a house with modern plumbing and a splendid garden, which does not sound as if he was roughing it, although he can catch all the trout he wishes within an hour of his house; has brought down venison within 300 yards of his porch; ducks, geese, grouse, and so on, come around asking to be slaughtered; and he has had so many king salmon that he has really become fed up on them. He recommends that we hold our next Class Reunion in Alaska and guarantees to show us the best time of our lives. For the benefit of those who have never been in Loring, he states that it is about thirty miles north of Ketchikan, and it is merely a cannery lease belonging to the Alaska Packers Association. He winds up his letter as follows: "Good luck to you and to every member of the old Class, whether I knew them well or not. I'd sure like to give those

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who'd appreciate it a whirl at an A-1 outing up here among the glaciers, timbered peaks, and the wild beauty of this great inland waterway where all travel is by boat because the jungle is too thick for ordinary travel."

Edward L. Sturtevant, who has been for a long time associated with the Copley Theatre in Boston, is now going into real estate as an extra line and has under erection a 500-car garage on Gainsboro Street in the rear of the Y. M. C. A., which will cost \$700,000.

After the Reunion Wayne spent considerable time in the East making it a regular vacation. First he visited Beaman and was then picked up at Newport by Bakenhus, saw Bob Davis and Whitney in Boston, and Harry Baldwin in Lynn. He visited the Secretary at Technology on June 29, and after this made a visit in Schenectady with Coolidge, Arthur Baldwin, Pauly and Stearns, and lunched with Dr. Whitney. On his way back he had a Fourth of July dinner with Merryweather and his gang at their country place at Gates Mills, out of Cleveland.

Sincere apologies are due to Johnnie Hallaran for having named him Johnnie Jallaran in the last issue of The Review. The editors of The Review failed to send proof to the Secretary as had been their usual custom, which accounts for the error.

No report has been received from Bradley Stoughton after his European trip this summer, but the Secretary hopes to hear from him before the next issue. He was recently elected Vice-President of the Engineers Club of the Lehigh Valley.

Lennie Dickinson received his degree of Master of Arts in June as a result of his year of study at Leland Stanford Junior University. He returned with his family by automobile through the Columbia River Highway and Yellowstone Park and is now back on the job of teaching again at the University of Vermont.

Lew Tappan was in Florida during the past winter, but returned to Massachusetts in the spring and located at South Duxbury for the summer, but a combination of circumstances made it impossible for him to attend the Reunion. The Secretary has not learned whether or not he returned to Florida to be on hand there for the hurricane.

Henry Jackson, who turned up at the Reunion, has now taken over the Rhode Island and eastern Connecticut agency for Ferro-Chem, which is a device put into feed lines to boilers and results in the elimination of corrosion as well as the eventual elimination of scale. This device has proved absolutely successful in many installations throughout the East as well as the West and Jackson believes that it will prove the sensation of the year, if not of years, in boiler feed correction. The fellows who were at the Reunion learned about it at first hand from Jackson, but he will be glad to supply information to '96 men who were not at the Reunion or to any others who may be interested. He is located with Wheelock-Bogue, Inc., 141 Milk Street, Boston, Mass.

A letter from Lonngren early in the summer stated that he was still busy with the financing of his rolling mill plant in Los Angeles and although he was having a hard job he felt sure of ultimately putting it over.

Arthur Morrice is a fellow who is heard from rather rarely. The Secretary saw him some years ago in Montreal. This year he has sent in a note from Chalet Beauval, Chemin Bergere, Vevy, Switzerland. He is still associated with Canadian Cottons, Ltd., in Montreal, and after his European trip expects to be back in Montreal this fall.

Joe Stickney again found it impossible to attend a Reunion but, as a substitute, wrote a letter which contained his greetings and told something of his work as follows:

"Following graduation along with Whitney, Wayne, Tilley, Putnam and some of the other fellows I entered the employ of the Bell Telephone Company. I stayed with that organization for some years. Up until 1903 I was located in New York City and that year I was transferred to the Middle West and served the organization in various capacities, mostly in the State of Indiana although I was located in Chicago for about a year. In 1918 I left the telephone business and became director of personnel for the Nordyke and Marmon Company, doing war work in the manufacture of Liberty motors.

"When this work was completed, instead of going back to telephone work I went into the insurance business, having had considerable contact with this work in my previous activities. For some years I have been operating a general insurance agency. My work, however, has been almost entirely devoted to an arrangement whereby I act as insurance advisor to the Fletcher American Company and the Fletcher American National Bank of this city. The Fletcher American Company deals in high grade investment securities and the Fletcher American National Bank, as its name implies, is a national bank.

Both of these institutions in their respective classes are the largest in Indiana. In addition to this work I still have considerable contact with the telephone industry through personal holdings and through the interests of the Fletcher American Company dealing in telephone securities.

"I am married and have one daughter, sixteen years of age. Unfortunately I have no boys I can send to Technology."

Stuart Bell had a siege in the hospital from which it took him a long time to recover so he was ruled out from the Reunion.

The Secretary reports with regret the receipt of information that George B. Mackay died on August 21, 1924, at his summer residence, Cacouna, Quebec. Mackay will be remembered by some fellows as a classmate who was with us only during the early years and who had a good time at Technology. The Secretary has heard very little from him but he apparently had been located in the West and maintained an address at Lethbridge, Alberta.

Clarence Perley came to life about Reunion time and wrote a letter from La Esperanza Ranch, Jemez Springs, N. M., where he had for four months been recuperating from a bad case of grip and bronchitis, endeavoring to get back in shape to resume his duties in the Library of Congress. He said that New Mexico has the greatest climate in the world with beautiful mountain scenery, tall mesas 8000 feet high, some of which he had climbed on horseback, interesting ruins of old pueblos, and canyons which rival the famous Grand Canyon of the Colorado.

Howard Jones had expected to attend the Reunion in connection with the graduation of his son from Princeton in June with an M.A. degree, but for some unexplained reason the automobile trip which he and Mrs. Jones had planned did not land them at the Reunion.

Irv Merrell, who took a lay-off of four months during the spring, came back on half-time work at his office in June and although he reported improvement, he did not feel that he was quite well enough to undertake the trip to Boston.

Lou Morse called upon the Secretary on September 16 while he was in Boston on business but, unfortunately, at that time the Secretary was away on his trip. Morse said he got a good rest at the Reunion after having been unusually busy with activities in the refrigerating trade and in designing additions to the York manufacturing plant during the spring, which kept him on the jump all the time. However, he had found time to carry on his investigations on corrosion and attended the meeting of the Corrosion Committee at Technology last April.

As if he did not have enough to do with his business and with his golf, he was made chairman of the decorative committee for the Conclave of the Grand Commandery, Knights Templar, of the State of Pennsylvania, which was held in New York the last of May. This committee introduced some unique decorative features.

Charlie Morris was one of the fellows whom we had hoped to have at the Reunion but as Congress was in session he did not feel that he could leave Washington, since a congressman might call upon him as Paymaster General of the Navy for first hand information. Charlie Lawrence reports that he had a delightful lunch with Morris early in June and found him looking well and wearing lightly the dignity and distinction of his office of Rear Admiral. Morris was married about three years ago, after having remained single up to that time, but it is understood that he feels that he was warranted in waiting until he was able to obtain a satisfactory mate.

Lloyd Lamborn has quit his job of editor of *Chemical Age* in New York City and says that he will never spend another winter in New York. He and his family migrate south with the birds, living half of the year at Rockland Lake, Rockland County, N. Y., and half the year at Virginia Apartments, 1401 Bay Villa Place, Tampa, Fla. His oldest boy is planning to enter Florida's state university this fall. All classmates who spend their winter vacations in Florida are invited to look up Lamborn in Tampa.

Nathan H. Smith, who was lost, has now been located at 2202 La Branch Street, Houston, Tex. — Harry Boardman, after having served as Acting President, was, on May 22, elected permanent President of the University of Maine. Besides being the first alumnus to become President he has been connected almost continuously with the institution as student, instructor, associate professor, dean, acting president and finally president. It is a fitting reward for his success as dean in developing the College of Technology since its inception in 1910.

Charlie Hyde, in addition to his work of instruction, had the misfortune to be appointed Dean of Men in the University of California for a two-year term which imposed many new duties and responsibilities upon him. In addition, he had what might be considered good luck in a way of having an unusual amount of professional work on hand



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which required his serious attention this summer, but he looked upon these both as bad luck since they kept him away from the Reunion.

An issue of The Review would not be complete without mention of Gene Hultman who took the position of Fire Commissioner of the City of Boston at noon on July 7. His first official act was the signing of a general order announcing that he was in charge of the Department, and in less than twenty minutes after he was sworn in he was speeding to Roxbury to watch his men fight a fire in the Grove Hall Savings Bank Building. His new job may be considered as a promotion since his old position as Commissioner on the Necessaries of Life carried a salary of \$5000, while the new job is \$2000 higher. The newspapers at the time gave considerable publicity to the event and various stories of his life appeared in the Sunday editions. The fellows all know that Gene will restore the Fire Department to its former high state of efficiency and will keep it out of politics.

After the Reunion Con Young had an operation which laid him up during July, but at the end of the month he and Mrs. Young motored through Pennsylvania and New York to Echo Camp in the Adirondacks where they stayed until September 7, and then motored through the White Mountains and along the Maine Coast before returning home the first of October.

The Secretary ran across Russell Porter at Professor Gardner's summer camp at Milton, N. H., in September and received a cordial invitation, including also all classmates who may ever be motoring in Vermont, to drop in on him at Springfield, Vt., where he is with the Jones and Lamson Company.

CHARLES E. LOCKE, *Secretary*,  
Room 8-109, M. I. T., Cambridge, Mass.  
JOHN A. ROCKWELL, *Assistant Secretary*,  
24 Garden St., Cambridge, Mass.

'98 A beautiful, illustrated booklet published by the Altadena, Calif., Chamber of Commerce has just arrived. It is a fine example of the California art of self-advertising, but what interests us is that it contains a large picture of "Sagemont, the beautiful residence of Paul F. Johnson" and in another part a photograph of the gentleman himself where he is styled as Director of Transportation of the Altadena Chamber of Commerce. In a separate letter we learn that Johnson is now three times a grandfather, and he wants to know who in Ninety-Eight can beat that. As we already know he owns the Altadena Radio Laboratory and he has recently become a member of the Institute of Radio Engineers.

Last summer the Secretary took quite a trip into Mexico and then California, Salt Lake, the Grand Canyon, and Bryce and Zion Canyons in southern Utah. On the Southern Pacific train he ran into Dick Mommers who had been making an extended survey of the beet sugar industry of California.

ARTHUR A. BLANCHARD, *Secretary*,  
Room 4-160, M. I. T., Cambridge, Mass.

'00 No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review office. Members of the Class having news or inquiries should address them to George E. Russell, Secretary, at Room 1-272, M. I. T., Cambridge, Mass.

'01 The Twenty-Fifth Reunion of the Class, like the ducky's Christmas, has come and gone. A brief record was sent out in the Annual Letter, which goes to every member of the Class who is in sufficiently good standing with the police and his family to allow his address to be made a matter of record. Therefore, certain of the glad tidings have already been borne to you. You know, for example, that nearly forty of us foregathered. You know, further, that a number of those who were delayed at the last minute wired tearful regrets. You know, in addition, that we continued our explorations of the town of Osterville, this time traveling to the East and finding lodgement in the hostelry on the Bay of that designation. You know, also, that the Class voted to establish a contributing membership which would permit those generously inclined to send in more than the allotted \$2.00 which constitutes our modest annual dues. May I pause for a moment to say that the response from this up to the present has been most gratifying, and a number of men, some of whom were not at the Reunion, have enrolled themselves in this group. You know, furthermore, that Mr. S. Wilson Bailey indulged in ground and lofty tumbling with both Freddie Boyd and Roger Wight. The latter, whose physical proportions indicate a basic mis-naming, conceded weight and age to his opponent, and the result was a drawn battle.

Now these are some of the things that you do know, but there are many that have not been disclosed to you. Consider the fact for a moment that Joe Evans, on deck with the earliest, saving Lammont duPont, and one of the last to leave, demonstrated his capacity in a protean manner—as what my friend Kirby would call a "sporteur," as a provider of sustenance, as a purveyor of good stories, and as a universally genial influence, he occupied an almost unique position. Five years ago Freddie Boyd was a ringleader in the revels, but he was able to check in only toward the last part of the gathering, and Joseph adorned and lent dignity and charm to the usual thankless rôle of Master of Ceremonies.

We have a number of golf experts in the Class, many of whom have developed an individual style of play. I had thought myself unique with an addiction to the creak after a twenty year abstinence from the game. Bob Williams, however, showed himself a master of the putter, and his recoveries from sand pits and deep lakes with this useful but modest implement excited general admiration.

Philip Moore was present—gay, debonair, genial as ever, and one of the reliable members, who can always be counted on for the positive virtue of the right thing at the right time, and never the wrong at the wrong. He was ably assisted and aided by Perk Parrock, who has



Nineteen-One in mood ribald and manner jovial at the Reunion in Osterville. "You can readily understand that, with this crowd thus participating, it was a royal good time."—Secretary Allan W. Rowe.

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recently enrolled as one of the foundation stones of the so-called Boston group, although, truth be told, Perk's heart is still true to that debatable land of compromise where he first saw the light of day.

DuPont's welcome to the Class has already been noted, and he is responsible for one of the photographs which I am sending in for reproduction to the Editors of this journal, Bob Williams having gathered the other. DuPont circulated another picture to those present at the Reunion, but at Freddie Boyd's earnest solicitation I am not offering this to the public, although personally, while I felt that it did not do me justice, I would certainly have stood for it if Freddie had evinced a like openness of mind.

Mort Foster, one of the real golf experts, as opposed to the specialists like myself and Leon Thurlow, resumed a contact with the Class after twenty-five years of isolation somewhere on Long Island Sound.

Little Robert Derby was another whom the metropolis released to us, while Blanchard, Vermilye, Weil, were among the others who have taken up their abode in the Temple of Mammon — and comfortable living conditions. Dan was on from Buffalo, slightly more gray than five years ago, but with the best of good reasons in the growing responsibilities of his steadily increasing professional activity. The Chandler twins (their families do not know of this! I discovered it), Howard and Leonard, were both there, but with that inhibition always to be found in well-regulated families, they avoided each other's society in a way that was never obtrusive, but which did excite comment.

Johnnie McGann was among the early arrivals, and thanks to his courtesy in conveying the writer, equally one of the late departures. Chambers came over for the first night, but had to leave early as did one or two of the others. George Allen formed a solid segment of the Boston contingent, supported by Willard Dow, another of the standbys, and Teddie Taft who represents us at the Institute.

Norman Dubois dropped in upon us just as we were pulling tent pegs. He said he liked the country, though, and didn't mind solitude.

Upper New York State sent its contingent in Sol Stone, Charlie Tufts, and Arsem who were all there. Bill Pepperell crawled out of his collection of boxes and did much to add to the solid gaiety of the party. Frank Holmes and Charlie Record were a little late in arriving, but speedily entered on the job. Bittinger and St. Clair representing the Arts, said vain things about the local architecture, but were on the whole satisfied with Nature. As a matter of fact, Osterville is a mighty pretty part of the country. Peterson, a golf player, Martin from Chicago, and good old John Boyle — why is it that some men have that quality of genial maturity that calls for the qualifying adjective probably in their cradles? — Bigelow and Putnam testified to their loyalty, and all swore to return for the next reunion.

Gordon Thatcher and our sweet scented Robert of the Clan Montgomery settled ancient differences in an amicable manner. And at last upon this tale of those present E. H. Davis — Ted, to his friends and they are many — without the famous corncob pipe, but still bearing that vigorous hirsute growth which was ever the despairing admiration of Arlo Bates, who endeavored but could not succeed in duplicating its combination of luxuriance and restraint. Ted was with us, not a day older, unchanged, unspoiled, and a welcome addition to every group.

Now you can readily understand that, with this crowd thus participating, it was a royal good time. In all seriousness, I feel certain that there was not one man present who regretted the sacrifice of the time which the trip had entailed, and who did not feel amply recompensed in the opportunity to renew the ties with the good fellows of twenty-five years ago. They were good fellows then, they are good fellows today, and some of them are much more than that. Each one is doing his productive part in the world, as the simple recital on the first night testified. Authority, efficiency, broad service to the community, material success in the best that the term implies, seems to be the class record. So now, let everyone look forward to our next five-year reunion and plan now to have all of the daughters graduated and all of the sons safely bailed out, and all of the businesses running smoothly, and all of the other necessary arrangements of inhibiting circumstances so provided that a hundred of us will meet at the next gathering. Forty we can surely count on, and if each of them brings one, and then perhaps twenty of those from the more remotely placed come to swell the number, we will make our century mark with our thirtieth year.

ALLAN W. ROWE, *Secretary*,  
4 Newbury St., Boston, Mass.  
VALDEMAR F. HOLMES, *Assistant Secretary*,  
131 State St., Boston, Mass.

'02

The July issue of The Review went to press too early to carry an account of two important class events held in June. An informal outing was held at the Riversea Club, Saybrook, Conn., beginning on Friday, June 11. Bob Baldwin, with Mrs. Baldwin and his two big sons just home from Lafayette, were the first to arrive; then Harry Manley with his wife and young son, Henry the Third; then Friend from Boston; and a little later Reynolds and Mrs. Reynolds with the Class Secretary and Mrs. Hunter. These had put in some time scouting along the shore for possible places for the next year's reunion. After that the New York bunch arrived *en force*: Messrs. Hathaway, Montgomery, Keru and Mathesius, with their wives, and Jack Fruit with his wife and daughter, Miss Esther. After supper Ned Baker with Mrs. Baker and their two children came in. An impromptu dance was staged in the evening, with Jack Fruit as floor director.

Saturday morning activities were divided between the golf links and tennis court, while Roy Kern took some of the ladies to ride through the beautiful town of Old Lyme across the river. Bill Bassett and his wife drove down from Worcester in the forenoon. In the afternoon a shower prevented golf and tennis for a time, but golf was resumed later. Chauncey Manning drove down from Hartford Saturday afternoon and received a warm welcome, it being the first class gathering he has been able to attend for many years. In the evening a bridge party was held under the direction of Mathesius and Fruit, and this was followed by some stunts, winding up with a surprising demonstration of hypnotism by "Professor Monte."

Sunday was fine and the morning was spent at golf, tennis and a walking party to the lighthouse. Fruit, Baker, Bill Baldwin and the little Bakers joined the Class Secretary in testing the cold water of Long Island Sound during the Outing. Walker and Pendergast arrived in time for dinner on Sunday, having driven down from Boston in the forenoon to see the crowd. Most of the party left Sunday afternoon, a few staying over to Monday morning for better traffic conditions on the roads.

On Saturday evening a class meeting was held on the piazza. Hathaway was elected Vice-President for the New York district, succeeding Baldwin who held the office for the past two years. The other officers were re-elected. It was voted that the Secretary canvass the Class to determine what support would be given for a Class Book and what type of book should be issued. After a discussion of the Twenty-Fifth Reunion next June, details were left to the Executive Committee.

So far we have not mentioned the presence of a delegation of '95 men with their wives. Although somewhat in the shade of our larger numbers, they were most agreeable company and took the honors at golf and a fair share of them at bridge, but none of them risked taking on Ned Baker at tennis or trying the arctic swimming conditions.

A dinner of the Class, the first ever held in Chicago, was called by Les Millar on the evening of Monday, June 7, at the Old Colony Club. The occasion for this event was the presence in Chicago of the Class Secretary who attended the organization convention of the American Institute of Quantity Surveyors on June 7, 8 and 9. Beside Millar and Hunter, the classmates present were Lockett, Fisher, Currey, Durgin, Cutter, Towne, Sturtevant, Fitzgerald and Bob Brown of the local men, and Elmer Hervey who had run down from Sheboygan, Wis. Several of these classmates the Secretary had not seen since graduation and some had not seen others of the party in almost as long a time. They subjected the Secretary to a fire of questions for nearly three hours about this and that classmate, and this and that professor, and things at the Institute and in Boston, all of which he was glad to answer as well as his memory allowed. Discussion took place regarding the Reunion next June, the possibility of a Class Book and the recommendations made at the class meeting.

James H. (Doggie) Browne, after spending several months on the Pacific Coast, has returned east and sailed from New York on October 17 with Mrs. Browne for a trip around the world, to return next May. The Class Secretary and his wife had the pleasure of a lunch with the Brownes when they were in Boston, and commissioned Doggie to look up classmates in distant ports. — Hal Bosworth of Denver was in Boston for a couple of days in September. A lunch party was assembled on short notice on the twenty-fourth and the following classmates were on hand to greet Bosworth: Sherman, Walker, Ames, Pendergast, Hooker, Nickerson, Taylor, Sears, Patch, Upham and the Secretary. Bosworth had come east to meet his son, Otis, who was returning from a summer in Europe to resume his studies at Princeton. Bosworth also saw several classmates when in New York. — Hervey has hung out his shingle as a consulting engineer for mechanical and



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electrical work in Sheboygan, Wis., and reports a good start. — Sears has moved his engineering office to the Waterman Building, 44 School Street, Boston, directly opposite the City Hall. — Nickerson has moved his home to 110 York Terrace, Brookline.

FREDERICK H. HUNTER, *Secretary*,  
Box 11, West Roxbury, Mass.

BURTON G. PHILBRICK, *Assistant Secretary*,  
276 Stuart St., Boston, Mass.

'04 Another summer has slipped into the past and it is again time to furnish some news for Review readers. The Secretary hopes that all his classmates have passed an enjoyable summer and have had a vacation from their usual vocation, which has benefited them greatly and rendered them eager for the coming winter's work.

The annual Class Reunion was held this year at East Bay Lodge, Osterville, on June 25, 26 and 27. As was forecasted by the reply cards, this Reunion was attended by the smallest number since the beginning of our reunions.

As usual, the Reunion started with lunch at the Engineers Club on Friday noon. At that time, fifteen had signified their intentions of attending the Reunion, and eleven had stated that they would attend the lunch. Seven faithful members appeared at the Engineers Club. They were: Charlie Homer, Hump Haley, Dave Sutton, Harry Kendall, General Holcombe, Tammy Rockwood and, of course, the Secretary. Ed Parker, Gus Munster, Cy Ferris and Mert Emerson were expected. Cy Ferris could not be found in his usual haunts, but the other three telephoned that they were prevented from attending by various unexpected happenings but that they would be present at East Bay Lodge.

The trip down to Osterville was made without any more serious disturbance than that the drivers of the cars were forced to show their licenses to policemen at various places.

On arrival at the Lodge, Charlie Stebbins greeted the gang. He had combined business and pleasure and gone down early in the day. On the way down Jack Draper was picked up at his summer place at Scituate, and Mert Emerson was found at the West Barnstable railroad station. Ed Parker arrived during the evening, and a telegram from Cy Ferris expressed his regrets. The evening was passed with bridge, yarns and refreshments.

Saturday morning everybody betook themselves to the Wianno Golf Course, where much fresh air and exercise were assimilated. The forenoon was a beautiful one, but about noon it clouded up and during the afternoon the rain, without which no '04 function is complete, arrived and dampened the ardor of all but the most devoted golfers.

While the gang was at dinner, Gene Russell put in his appearance and was soon followed by Gus Munster and Charlie Homer. During the afternoon Herb Goddard and Mrs. Goddard arrived. This completed the roster of those present and rendered the 1926 Reunion unique in two respects: It was attended by the smallest number, and it was the first one to be graced by the presence of the fair sex.

Sunday was a beautiful day and much more golf was shot. No records were kept, but general opinion seemed to indicate that Tammy Rockwood was the 1926 champion. Hump Haley and Gus Munster failed to stage their annual match and this was missed very much by the rest of the crowd. As usual the party broke up after dinner on Sunday. All those who attended enjoyed every minute and were very enthusiastic over the Lodge and its accommodations.

The complete list of those present is as follows: Mrs. H. W. Goddard, Goddard, Stebbins, Russell, Homer, Mert Emerson, Kendall, Parker, Draper, Haley, Munster, Rockwood, Sutton, Holcombe and the Secretary.

During the past spring Hump Haley severed his connection of long standing with E. C. Lewis Company and started on a venture of his own under the name of H. M. Haley Electric Company, Inc., at 137 Pearl Street, Boston, Mass. The Company specializes in power and lighting equipment, house wiring, telephone and signal installations. Hump has the good wishes of all his classmates in his undertaking.

After a long, hard struggle Mert Emerson has succeeded in persuading the United States government to restore a portion of the pneumatic tube mail service in Boston. The portion now in use is between the North and South Stations and the main post office. We hope that this may be the opening wedge which will result in a further restoration of this service.

Dave Sutton met with a painful accident while playing golf this summer. He was unfortunate enough to drive his ball into a bunker. He remembers swinging at the ball in the attempt to get out and the next thing he remembers he found himself in the club house, with three dislocated ribs. At last reports, when these notes were written, he was improving and able to be about, but not able to resume his golf.

When C. J. Emerson called up to tell the Secretary that he could not attend the Reunion he reported the birth of his son, Eliot Gould Emerson, on February 11, 1926.

Shortly after the Reunion the Secretary happened to meet Cy Ferris strolling across Boston Common. Cy announced the birth of Miss Joan Ferris on July 2.

During the past summer another of our members crossed the Great Divide. William F. Gerry died August 2, after an illness of ten days, at his home on Walnut Street, Lynnfield Center, where he had lived for the past twenty years. He was engaged with his father and brother in the E. F. Gerry Company, manufacturers of cider and vinegar, and was the President of the company at the time of his death. He was a native of Lynnfield, was born in the house where he died, and attended the public schools of that town before attending the Institute. Subsequent to his graduation in 1904 he spent a year and a half with the Baldwin Locomotive Works and then returned to Lynnfield. He was a descendant of Elbridge Gerry who was a signer of the Declaration of Independence, a member of the Continental Congress and Governor of Massachusetts from 1810 to 1812. He was popular among his classmates to whom he was best known as Bill, and this popularity followed him in later days. He was prominent in Masonic circles as a Past Master of Golden Rule Lodge of Wakefield, Mass. He is survived by his wife, two sons, his father and a brother.

HENRY W. STEVENS, *Secretary*,

12 Garrison St., Chestnut Hill, Mass.

AMASA M. HOLCOMBE, *Assistant Secretary*,  
3305 18th St., N. W., Washington, D. C.

'05 Charlie Boggs had the distinction of sailing this summer in the famous 660-mile ocean race from New London to Bermuda. He was one of the crew of *Malabar III*, one of John Alden's famous family of deep-sea cruisers. He writes: "We finished fourth in our class and also got in ahead of two of the larger class. There is nothing to boast about in this but we had the smallest boat in the race and could not keep up with the larger boats in a heavy sea. The experience was certainly a delightful one from the sport standpoint, but sailing on a small boat on the wide Atlantic has some discomforts and is not to be undertaken by anyone who does not really enjoy sailing. The race this year was one of the slowest ever sailed due to the fact that there were light head winds all the way. It took us seven and one-half days to get there, although we came back 100 miles farther, around the Cape to Manchester, in five and one-half days. We spent three or four days in Bermuda and enjoyed the liberty of not living under the Volstead Act."

It is too bad that Charlie did not tell us more about his experiences for the accounts have it that the smaller boats went through a severe blow crossing the Gulf Stream. *Malabar III* is only about forty feet long and carries that very modern rig, with jib-headed main and two staysails between the masts, introduced last year by a Boston amateur and now adopted by nearly every racing schooner in the East. It may be fast but it does not please the eye of one used to the conventional schooner rig. Incidentally, the winning yachts wore conservative clothes.

Your Secretary also took a cruise to a British port and had mostly smooth but some rough going. Surely Charlie had nothing more exciting than the voyage across Champlain in a heavy sea on the dilapidated prairie schooner that ferried us over to Rouse's Point. We spent three or four hours in Montreal and didn't enjoy the liberty once. Never mind the Florida story. This is true.

On the way up through Glens Falls, we learned that Bill Green was just around the corner. We stopped but Bill was out. At Chazy we had hoped to see an old '05 and high school friend, Fred Wales, who is connected with a lime company there. He had been recently raised from local superintendent to general manager and was away when we inquired at the office. At the Hanover Inn, where we stopped one day for dinner on the way home, we met Carl and Mrs. Graesser.

Harry Wentworth wrote as follows: "Your mention of me in the July issue of *The Review* has, according to some of my friends, solved

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a problem which has been bothering them. They could not imagine where I had had my training along some lines, they say, but after reading that note and learning that I had been Assistant Vice-Secretary at the Institute, it seems to have solved the problem as to the early training. Now their inquiries are as to who was the chief during that period, naturally suspecting you. I wouldn't dare make it public that it was Bob Lord.

"I was sorry to miss the reunion (what reunion? Secretary, '05) but I was on the water at the time, returning from Europe. I went over with the Walker Cup team and came back with part of it, intending to go around with the bunch and try to combine an outing with business, but unfortunately an operation on my running mate five days after we landed confined me to London, largely as general office boy to the hospital. I did, however, see the boys play at Sandwich and at Rye. I want to say that the Walker Cup Team and Followers' Male Chorus would give the Wesleyan Glee Club a run for its money."

Honors have come to many members of our Class, sometimes sufficient for a write-up in the front part of The Review. A portrait or two may have appeared. But when, in one writing, has any Class Secretary been able to report three men elected to high office? Bill Motter has become Governor of the Technology Club of New York, George Jones, Vice-President of the Technology Clubs Associated, and Dick Dickerman, President of the Technology Club of Rhode Island. And if that is not enough, one of our men, it is reported, has held an office of even greater responsibility — judge, judge of a Charleston contest. Who? You couldn't guess. Well, it was Grafton Perkins. But we have learned the answer. While Mrs. Perkins was abroad last winter, Perk took a course with the Braggiotti Sisters (they who appeared as red bathing beauties at the Jamboree) and when Madam returned, it is said the approval was unanimous. Of course he can qualify as an expert.

*The Duro Keyhole*, issued by the Duro Pump Company of Boston, Fred Goldthwait, General Manager, announces the opening of the new store at 198 State Street. The paper is so well done that we perceive the next editor of *The '05 Flyer*. Not only does Fred offer the pump to pump the water with "most gallons per dollar" but also the apparatus for treating that water both before and after.

Tom Estabrook, who for years was purchasing agent for the Brown Company at Berlin, N. H., has been moved to the Portland, Maine, headquarters. — Dick Marsh created some more international excitement in June when he submitted to Senator Borah a memorandum charging that powerful foreign interest had obtained concessions on all the rubber land in Panama. For two mornings it was front page stuff.

Elmo Lowe has an announcement to make from 636 Church Street, Evanston, Ill.: "Last fall I resigned from the firm of Granger, Lowe and Bollenbacher with offices in Chicago, and opened an office to continue the practice of architecture under my own name and in my own town of Evanston. The Mayor of Evanston has recently appointed a City Plan Commission. I was one of twelve citizens chosen for membership and was elected permanent Secretary. This will give me an opportunity to study town planning in a practical way. I was not the architect for the East Indian Temple here. You asked me regarding this some time ago." Can it be that the Mayor knew nothing of George Jones' experience in city planning and failed to include him in the commission?

John Douglas reports from Marquette University, Wis., that his chief claim to fame lies in his success in getting creditable research work done by his students which, according to some of our other friends in the teaching line, is nothing to get modest about.

Captain R. D. Gatewood, district director at New York of the Fleet Corporation, conducted the inquiry upon the charge that liquor was sold on the *Leviathan*. The ship was acquitted.

This paragraph will serve to report the addition of several to the Class Cradle Roll. No announcements have been received for a few months but there must be some that have failed to advise.

ROSWELL DAVIS, Secretary,  
Wes Station, Middletown, Conn.  
S. T. STRICKLAND, Assistant Secretary,  
20 Newbury St., Boston, Mass.

'06

To the loyal '06 group which attended the Reunion at Old Lyme last June, any account which the Secretary could write would be like gilding the lily. For those who were unable to come we shall do our best to describe it. We only wish we could inject a small portion of the spirit of the affair into the notes. If we can do that we shall not have written in vain.

The Reunion was held June 17, 18, 19 and 20, at Boxwood Manor, Old Lyme, Conn., a place suggested to the Secretary by Ray Philbrick who had attended Connecticut Tech gatherings there, and to whom we owe a debt of thanks. It would be hard to find a more delightful and suitable place for a reunion. Old Lyme is a charming old town with wide streets shaded by large trees, and Boxwood Manor is an hospitable old Colonial inn with wide lawns and a wonderful garden where iris, poppies, pansies and peonies were in full bloom. The Class was fortunate in having a new building, known as the Annex, practically to themselves. The scene of our indoor gatherings was a large reception hall with fireplace on the first floor of the building.

Although the Reunion did not begin until Thursday, Charlie Wetterer, Mrs. Wetterer and young Charles arrived Wednesday afternoon. From that time until Saturday afternoon, when the total attendance of forty-three was reached, each day brought new arrivals. Following is a list of those attending: Mr. and Mrs. O. B. Blackwell with Master Allston Blackwell and Miss Anne Blackwell, Mr. and Mrs. E. S. Chase, Mr. and Mrs. S. C. Coey, Mr. and Mrs. F. M. Fuller, Mr. and Mrs. H. A. Ginsburg, Mr. and Mrs. P. K. Griffin, Mr. and Mrs. J. W. Kidder, Mr. and Mrs. S. A. Nash, Mr. and Mrs. Philbrick, Mr. and Mrs. R. J. Ross, Mr. and Mrs. C. F. W. Wetterer with Master Charles Wetterer, Mr. and Mrs. H. S. Whiting, Miss Eleanor Manning, H. J. Ball, C. F. Breitake, Shields Burr, M. A. Coe, R. S. Clarke, W. D. Davol, H. W. Dean, W. C. Furer, A. H. Keleher, C. S. McGinnis, J. A. Root, E. B. Rowe, A. B. Sherman, P. B. Stanley and E. M. Smith. Summarized, this list shows that our guests consisted of twelve wives and three children, the Class being represented by twenty-eight members, one co-ed and twenty-seven men.

Some of those present deserve honorable mention as their attendance involved long journeys. Jimmie Root left Edgewood Arsenal, Md., at daybreak Thursday morning, drove nearly 300 miles in his car and arrived at Old Lyme about 9 p.m. Floyd Fuller and his wife came on from Bethlehem, Penna., arriving Friday morning. Mrs. Fuller had to be back in Bethlehem Sunday morning so they left Saturday night. On leaving they assured me that the trip had been worth while. Honors for coming the longest distance went to Bill Furer who came from Honolulu.

Thursday evening was spent in welcoming new arrivals and indulging in reminiscences. The evening was finished by gathering around the piano and singing Technology songs.

Friday morning was devoted to tennis and golf. Most of the ladies accepted Eleanor Manning's invitation to go on what she called a slumming party, consisting of locating interesting old houses, antiques, and so on, in and about Lyme. From all reports it was a most enjoyable excursion. Golf and tennis were played at the Old Lyme Country Club, about a mile from the Manor. Friday afternoon included more golf and tennis, and in the evening a bridge party. Honors in bridge were distributed as follows: ladies' first prize, Mrs. Whiting; ladies' consolation, Mrs. Ginsburg; ladies' booby, "Miss" C. S. McGinnis. As the ladies were in the minority Claude took a lady's part. He was rewarded by being called "Miss" during the rest of the Reunion. The men's first prize went to Stewart Coey; the consolation and booby prizes will have to go unrecorded because after the interval of three months the Secretary does not recall who the recipients were. After bridge, dancing and singing were enjoyed.

Saturday morning included golf and tennis, with some of the party making trips about Lyme and over to the submarine base at New London. In the afternoon all drove down to the beach for a swim and a few brave souls ventured into the frigid water. Those on the beach seemed to enjoy it more than the swimmers. Sam Nash was really the outstanding figure in the swimming party although there are a few other figures which should receive honorable mention. Not, however, in the same class with Sam.

The outing closed officially with the final banquet Saturday night, which was the crowning feature of the Reunion. The Secretary had obtained professional assistance in preparing the decorations and, thanks to the womanly touches lent by some of the ladies, the table was certainly very attractive. Place cards and noise makers were employed and beside each plate were placed a number of appropriate souvenirs. The affair was entirely informal and speech making was reduced to a minimum. Bill Furer demonstrated the Hawaiian custom of using lei which he had brought especially for the party. "Miss" McGinnis spoke for the ladies.

The prizes were awarded at the dinner as follows: For coming the longest distance, Bill Furer by several thousand miles; men's golf, Herbert Ball; ladies' golf, Mrs. Ginsburg. Kicker's handicap golf was divided between Herbert Whiting and Ray Philbrick. Appropriate



1906 Continued

souvenirs were awarded Ralph Clarke and Andy Keleher for being the only bachelors present.

During the festivities Eleanor Manning asked to be heard and when her request was granted she surprised the Secretary and his wife by presenting to them a most charming antique table, purchased in Lyme, as a remembrance of the occasion. At this time the Secretary has a hazy recollection of thanking the crowd to the best of his ability under the circumstances, but suffice to say said table is now one of the most treasured possessions in the Kidder household and will always be a reminder of a most pleasant occasion. After the dinner the crowd spent the rest of the evening in chatting, dancing and singing. A few of those from nearby points left early Saturday evening, but most of the crowd went Sunday morning. All agreed that they had had a wonderful time and were already looking forward to the next reunion.

The Secretary presents a few sidelights on the Reunion as follows: This was the first Class Reunion attended by a co-ed. Eleanor Manning's presence was enjoyed by all, and she assured us she had a good time. — Pete Stanley, Ernest Smith and Max Coe came down Saturday afternoon and the two latter stayed to the banquet. Stanley had an engagement which compelled him to leave early. He brought along a new motion picture camera which he used during the swimming party. It is planned to make this the feature picture of the next reunion. — Ned Rowe's business restricted his attendance to the last day only. His efforts, however, were responsible for a number attending who otherwise had not planned to come.

Mr. and Mrs. R. J. Ross came from Hartford Saturday afternoon and remained to the banquet. Both played around the course at the Country Club after the Class events were over. From the scores they reported they would have cleaned up the golf prizes had they been contesting. Besides shooting in the 80's Ross has done considerable work as a golf course architect. The nine hole golf course was an interesting one, offering plenty of trouble in the way of natural hazards. The golfers were Wetterer, Ball, Philbrick, Whiting, Kidder, Root and Ginsburg. Herbert Ball's gross of 97 was one stroke better than Ray Philbrick's. Stewart Coey conducted the tennis tournament. This fact had no connection with his winning first prize as he vanquished all comers.

The souvenirs made quite a hit. They included small screw drivers and rulers, compliments of the New Britain crowd with the Stanley Rule and Level Company. Garters for all were obtained by Henry Ginsburg through the courtesy of the Boston Garter company. Shopping lists and match cases with the numerals 1906-26 were included. Harry Brown sent over some of the Postum Company's chocolate, which helped out between meals. All the men were presented with red and gray neckties which were knockouts. These, also, were obtained through Henry Ginsburg.

Several took pictures. Will those who have pictures please send them to Ned Rowe, as he has been assigned to arrange for proper distribution?

Bill Furer, IV, who is an architect in Honolulu, was on a three months' visit to the States and was pleased to be able to take in the Reunion. While in Boston for a few days early in June he called upon the Secretary. At that time the Secretaries had the pleasure of being invited to luncheon at the College Club by Miss Manning to discuss plans for the Reunion. Bill completed the foursome and a most pleasant time was enjoyed. Shortly after sailing from Los Angeles, on August 14, Bill penned the following letter. It is a masterpiece. Incidentally, Kimo is Hawaiian for James:

"We left at noon; just had lunch and the shores of California are fast fading in the distance. So this letter is going to be just by way of postprandial divertissement. I am beginning my punishment on you because geographically you come first, your office being the most easterly point which I reached in my travels.

"This has been a glorious vacation, Kimo old dear, made so largely by the numerous friends who overwhelmed us with hospitality and gave us new inspiration all along the way. And this trail of pleasure began with you in Boston. To one who for eleven years had been deprived of seeing his old mainland friends, every little courtesy and favor was doubly appreciated. It was good to see all the old '06 bunch and it is good to know that the affairs of the Class are in such good hands. So please don't give up your job. It requires the very 'personality plus' which you are putting into it. If the slim forty, or less, who attended the Reunion back you up with their appreciation and a little coöperation you should feel sufficiently compensated to carry on.

"After the Reunion I returned to Philadelphia for another con-

vention; then to Washington for a day; back to Philadelphia for the launching of the *Malolo* at Cramps; then to Syracuse for a visit of two days with my young brother; two days in Cleveland with friends; a day in Chicago; another in Milwaukee and finally two weeks or more with my mother and sisters in Sheboygan, Wis. On July 22, I began the return trek westward. Had two great days of sightseeing in Denver; a thriller of a day at the Frontier Days Celebration in Cheyenne, Wyo., where I hobnobbed with genuine Indians, real cowboys and common white governors; four cool days in the mists and fog of Berkeley and the Bay region; a glorious daylight ride to Los Angeles; a day in Los Angeles and Long Beach; another in Santa Barbara (with a real earthquake thrown in for good measure); two sunny days in San Diego; two more in La Jolla by the Sea, a jewel of a place concerning which it may truly be said that it is 'on the edge of the promised peaceful country where the boughs of the trees are golden and silver, gold blossoms on silver branches, and the fights are all merry unbitter ones, and there is honey and ale for all.' Four more interesting days in Los Angeles with Ed Mayberry, another good old '06 soul, and L. O. Parker, both of Course VI, brought my three months of vacation to a glorious close. Yes, brought it to a close on the mainland but we still have six days of smooth seas and blue skies ahead of us and at the end of that, best of all, there awaits me on the wharf, when we land in Honolulu Friday morning, a greeting that means Home.

"You will see, Kimo, I am writing this not only to express my gratitude for past favors but to prove to you that a trip like this could stir even a Technology man to flights of poetry if he but possessed the literary ability to express himself.

"Again best thanks and best wishes to you, kindest regards to Ned Rowe, and good luck to you all."

Thanks are due Guy Ruggles for the following, particularly the kind words about our July column: "I offer you my congratulations on the splendid column which you had in the July Review. Here is another item of news which might be interesting and incidentally it is the real reason why I did not try to make the Twentieth Reunion. On July 1, Miss Nancy McBride Ruggles put in appearance at Inspiration. She is a fine, husky girl and weighed a little over seven pounds at birth. She was just what her father and mother wanted as a companion for her brother, Guy, Jr., who is two years and nine months at the present time." A very good alibi, Guy. Nancy will be old enough to travel in 1931.

Another welcome letter from one who has not been heard from for some time, namely Stanley Udale, II. "The brief record of my doings since leaving Technology is as follows: In 1907 special apprentice in the Baldwin Locomotive Company; in 1908 with Stevens Duryea Company, Chicopee Falls; from 1909 to 1911 with McKen Motor Car Company, Omaha; from 1911 to 1912 with International Harvester Company; in 1912 with General Motors Corporation, research department; in 1913 assistant research engineer, Studebaker Corporation; in 1913 to date with Holley Carbureter Company in various capacities. I am a member of the Bar (Michigan and sixth-circuit Federal Court), Registered Patent Attorney in the United States and regent engineer in England. I was president of my class, freshman year, at the Detroit College of Law. During the War I was Lieutenant in the Royal Navy Volunteer Reserves, and on the Admiralty Staff of the Royal Naval Air Service in 1915, 1916 and 1917. I saw service in France (Dunkirk 1917) where I met Westervael, '08, and Virginius Clark, '15, and one of the Lafayette Escadrille who was a Technology man I think. In the summer of 1918 I enlisted in the United States Engineers but did not get further than the embarkation point as Sergeant. After the Armistice I obtained a position as mechanical engineer in the United States where I renewed my acquaintance with Zachary Landsdowne and others in the United States Naval Air Service. However, I soon resigned to return to my pre-war job with Holley Carbureter Company.

"I wrote from 1909 to 1913 for *Horseless Age* on automotive and metallurgical subjects. Partly as a result of my work as a Patent Attorney the Franklin Institute awarded the Longstreth Medal to a Holley employee, D. H. Meloche, for inventing the Holley Long Life Molding Process. The British Air Board awarded me a vote of thanks and a money grant for the Udale Carbureter used on the Sopwith Sea Planes (Schneider Cap Model) from 1916 to 1918.

"Last summer I delivered four lectures in England on Holley Long Life Molds, meeting Rickey, '95, of Singer Sewing Machine Company whom I had met when I was at Crowell Camp in 1917. My daughter, Blais, is in high school and has forgotten her war experience in England in 1917 with her mother.

1906 Continued

"Among patent attorneys I meet Charles Neave, '90, and Ridsdale Ellis, '09, from time to time and helped Ellis against Neave in the Stellite litigation last year in the local Federal Court in which two or three other Technology men appeared as witnesses.

"Checking up on the oil throwing troubles with the early Rolls Royce engine I got into a naval engagement off Nieuport, Belgium, May 1, 1917, and as I had thirteen racks and only delivered twelve bombs I nearly checked in with fright on landing as I thought the thirteenth was hanging on my under carriage. No, I did not hit the Germans. We got charged with bombing British ships but cleared our skirts as they could not prove they were not German. Fact is, I rather think they were German. However, you never can tell, and there was no harm done anyhow.

"This is a regular lawyer's brief, so I will close with the explanation that my fall from grace — from engineer to lawyer — was due to my being called as an expert witness in 1913 in case of *Stromberg vs. Zemth (Facile decensus Aveni)*.

"P. S. Got badly beaten in the air service sports in 1915, coming in last in the mile run. Since then I have quit running."

The next was copied from the *Harvard Alumni Bulletin* of May, 1926. We are glad to note another '06 man will be in Boston. "Arthur Edward Wells has been appointed Professor of Metallurgy and will begin his work here next September, devoting himself to non-ferrous metallurgy. Mr. Wells was born at Saxonville, Mass., in 1884. After graduating from Technology in 1906, he worked for seven years for the American Smelting and Refining Company in various positions: assistant chemist at the Globe Smelter, Denver; chemist at the Arkansas Valley Smelter, Leadville; chief chemist and assistant superintendent at the Murray Smelter, Murray, Utah; and research metallurgist, assistant metallurgist of operations and metallurgist at the Garfield Smelter, Garfield, Utah. The last position carried the responsibility for the operations of the smelter: roasting and smelting copper ores to produce blister copper.

"For the next two years he was metallurgist in charge of investigations for the Selby Smelter Commission which evolved entirely new methods for studying and alleviating the smelter smoke problem.

"From 1915 to 1919, as metallurgist in non-ferrous metallurgy in the Bureau of Mines, he was engaged on many important problems, such as the recovery of sulphur from sulphur-dioxide gas in smelter emanations; the treatment of complex lead, silver, and zinc ores, and the recovery of metallurgical wastes; the investigations of the Anaconda Smelter Commission, appointed through an agreement between the United States Department of Justice and the Anaconda Copper Mining Company, to determine what steps must be taken to eliminate or reduce the discharge of waste products from that plant. As a result of this work, the Anaconda Company erected the largest Cottrell electrical precipitation installation in the world, with large flues and stack, to recover the solid element from the smoke, and embarked on the manufacture of super-phosphate in the effort to utilize the waste sulphur-dioxide.

"During the War, Mr. Wells worked with the Ordnance Department on the problem of producing adequate supplies of sulphuric and other inorganic acids, and for a time was associate chief of the Acids, Sulphur and Pyrites Committees of the War Industries Board. After the War he made many investigations for the Bureau of Mines, embracing nearly all phases of metallurgical operations.

"During the last six years he has been in private professional practice with an office in New York City, engaged in numerous investigations of operations, or proposed operations, of mines, of metallurgical and chemical plants, and of new processes and appliances which were offered for financing. His work included an eight-month visit to the west coast of South America for the purpose of making studies and reporting on the Chile nitrate industry; the Guggenheim process, and other proposed processes for the extraction of nitrate; the copper leaching process at Chuquicamata, Chile, and the operation of the Braden Copper Company and certain special investigations for the Anaconda Copper Mining Company.

"Mr. Wells comes here as a practitioner of high standing, after an unusually varied and successful practical experience of twenty years, not only in production and operation, but also in investigations requiring knowledge and skill of a high order. His aim will be to develop scientifically the non-ferrous metallurgical field along the lines on which Professor Sauveur ['89] has already worked out many of the problems of ferrous metallurgy."

Sid Carr, VI, and his wife called at the Secretary's office on September 24. Sid is another Hawaiian, now being with the Hawaiian Electric Company in Honolulu. He was on a visit to this country with

his wife and two children and intended to return home shortly, although Mrs. Carr and the children plan to spend the winter at her home in the vicinity of Philadelphia.

J. W. KIDDER, *Secretary*,  
8 Harrison Ave., Boston, Mass.

EDWARD B. ROWE, *Assistant Secretary*,  
11 Cushing Road, Wellesley Hills, Mass.

'07

In the Boston *Transcript* of June 15 appeared the following article: "Professor Henry B. Alvord, head of the Department of Civil Engineering at Northeastern University, is to have charge of one of the most interesting pieces of railway engineering of recent years — the planning of the new Cascades Tunnel through the Cascade mountains in the State of Washington, according to announcement today. Professor Alvord leaves shortly to begin a preliminary survey of the ground where the work is to be done. The new tunnel will be longer than the present one, but it will shorten the distance through the mountains considerably, and by lessening the grades, will make possible greater speed for the trains to the west coast.

"The survey work and the planning of the final location of the tunnel, on which Professor Alvord will be engaged, consists largely of triangulation. In this type of surveying he has had much experience, having been with the Massachusetts Boundary Survey for six seasons, and in 1922 having made a triangulation survey of the city of North Adams for the city engineer. For the last six years he has been in charge of the Department of Civil Engineering at Northeastern University. Upon the completion of the survey in the fall he will return to Northeastern University."

Laurie Allen is Treasurer and General Manager of Bennett, Inc., located in Salem, Mass., a firm working on a colloidal process of treating leather. — Anthony B. Arnold has been appointed Assistant to the President of the American Agricultural Chemical Company at 2 Rector Street, New York City. He has been chief engineer since 1921. Arnold lives at Westfield, N. J.

Lester W. Brock is resident manager of Godfrey L. Cabot, Inc., manufacturers of carbon black, at 511 Metropolitan Building, Akron, Ohio.

In the Boston *Herald* of June 18, appeared a list of honor graduates of the Command and General Staff School of the regular army at Fort Leavenworth, Kans., a school for the tactical training of field officers and senior captains, competitive in character. In this particular school were 244 officers. The only honor graduate from Massachusetts was Major Stuart C. Godfrey who is affiliated with our Class.

The following letter from Frank MacGregor, written May 13 in Paris, France, and although a few months old, is interesting: "Does the enclosed clipping [from the Paris edition of the New York *Herald*] remind you of the scuffle with the Boston cops over the possession of Rogers steps when we were in Technology? I was reminded of my rapid descent from the steps when I found myself in the midst of the scuffle between the Royalists and the Paris cops. I was strolling along the Rue Royale, thinking what a fine morning it was, when I noted an extra lot of cops and then a small parade carrying flowers — perhaps a hundred in columns of twos. The first thing I knew, all the cops headed for this group about the time a smaller group came down the street chasing a couple of citizens. The next minute it was a fine free-for-all and I was doing my best to get out of the scrap. I was not making much progress when I found myself being rapidly propelled down a side street in a direction that I did not wish to go. I looked around and saw two cops helping me along, and many others helping a few more citizens along in the same way. So, I changed my mind and decided I did want to go down that street after all. I made a dive across the street and got clear. No damage and my hat still with me. I'll have to watch out for the Fascists next week when I get to Italy."

Stuart Miller does fine work in keeping us posted about '07 men in Cincinnati. Following is part of a letter written by him on September 6: "H. D. Loring has just returned from a trip to Europe with his wife and two boys. — Carl Bragdon is still working hard at Ault and Wiborg Varnish Works here and I understand holds a very responsible position.

"Fred W. Morrill is still one of the engineers for the Ferro Concrete Construction Company, a firm of national scope. [Loring is one of the officers of the Company and W. P. Anderson, '96, is the President.] Fred is active in the Engineers Club of Cincinnati and the local branch of the American Society of Civil Engineers.



1907 Continued

"I have just made a slight break into local politics, going into the lowest elective office of Precinct Executive on a Clean-Up-Anti-Gang platform with some more of the good Republicans who are trying to clean up local conditions.

"Sorry I do not see more of the old crowd, but remember me to any that you may meet. If I cannot make the Twentieth Reunion in the flesh, you will know that I am with you in spirit. (In these prohibition days this word is singular and not plural.)"

The Butte (Mont.) *Miner* published an article on May 23, reading as follows: "Montana Stock and Bond Company yesterday filed articles of incorporation in Silver Bow County, the incorporators and directors being D. J. Fitzgerald, J. A. Clifford, Ernest Dorais and Carl J. Trauerman.

"Carl J. Trauerman, mining engineer, received his education at the Massachusetts Institute of Technology and operated mines and mills in various districts of the west for more than fifteen years, specializing in cyanidation in which branch he devised some of the present day equipment and processes. He came to Montana in 1912 and for the past few years has been devoting his efforts to the advertising of Montana's natural resources and interesting capital in the developments of the same. He was one of the most active local coöperators in the giant advertising campaign put forth by the transcontinental railroads a few years ago to advertise this state. He formerly was on the staff of the *Wall Street Journal* of New York, and for a number of years has been Montana correspondent for several eastern financial and trade papers. Mr. Trauerman is one of the publicity committee men of the Butte Chamber of Commerce, Secretary-Treasurer of the Montana Alumni Society of the M. I. T., and publicity manager of the Butte Radio Club."

James P. Alvey is with the Illinois Power and Light Corporation at Jacksonville, Ill. — Charles E. Baker is now located at 120 Forest Avenue, Rye, N. Y. — Harry R. Crohurst is with the State Department of Health, Division of Sanitation, at Minneapolis, Minn. — Louis A. Freedman is with Bell-Lite Elevator Signals Company, Twenty-Fifth Floor, Times Building, N. Y. C. — Selden E. Rockwell is with Washington Water Power Company, Spokane, Wash. — Leonard P. Russell is at 2 Barry Place, Scarsdale, N. Y. — Johnnie Thomas is with the American Can Company, Mills Building, San Francisco, Calif.

Keep in mind continually and expectantly the Twentieth Reunion of our Class to be held in June, 1927. Already many fellows have written that they count on being present. Much interest in the event is manifested by men in greater Boston whom the Secretary has met personally. Whether we will include our wives in this event is still an undecided question. At the time of writing these notes, September 24, the ballots on this question which have been received indicate choices as follows: In favor of including wives, thirty-four. Opposed to including wives, thirty-three.

This total represents only about one quarter of the number of letters sent out on this subject. You who read this and have not mailed the Secretary your vote, send it now, and don't forget the check for the fund asked for in the circular letter of August 25. We'll report in detail on that later.

BRYANT NICHOLS, *Secretary*,  
2 Rowe St., Auburndale, Mass.  
HAROLD S. WONSON, *Assistant Secretary*,  
W. H. McElwain Co., Manchester, N. H.

'08 No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review office. Members of the Class having news or inquiries should address them to H. L. Carter, Secretary, at 185 Franklin St., Boston, Mass.

'10 No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review office. Members of the Class having news or inquiries should address them to Dudley Clapp, Secretary, 15 Draper Avenue, Arlington, Mass., or to R. O. Fernandez, Assistant Secretary, 264 W. Emerson St., Melrose, Mass.

'11

Although nearly four months have elapsed at this writing since our Fifteen-Year Reunion at Saybrook, Conn., I am sure that memory still paints it in glowing colors for the twenty-six of us Eleveners and the ten wives who were fortunate enough to be able to attend the doings of those three days, May 28-31. Those who attended this year and were also present at our Ten Year Reunion in 1921 were: Obie Clark, Mr. and Mrs. M. E. Comstock, George Cumings, your Secretary, Mr. and Mrs. Stan Hartshorn, Mr. and Mrs. Jack Herlihy, Carl Richmond, Mr. and Mrs. Warren Simonds, O. W. Stewart, Mr. and Mrs. Harry Tisdale, Ted Van Tassel, Emmons Whitcomb (this year's efficient chairman) and Mr. and Mrs. Walter Wilson.

Others present who were not with us at the 1921 event were: Mr. and Mrs. L. P. Ferris, Bill Foster, Joe Fuller, Mr. and Mrs. Ned Hall, Mr. and Mrs. Joe Harrington, Fat Merrill, John Romer, Johnny Scoville, Mr. and Mrs. Bill Shepard, Frank Smith, Don Stevens, Pete White and Erv Young.

Classmates have all received copies of the *Log* kept and so wonderfully produced by Ned Hall and you will recall that most of us arrived Friday evening, either before or after dinner at the Riversea Club at Saybrook, Conn., with the evening taken up largely by bridge games and conversation and favored with a glorious day on Saturday. Much golf was indulged in although some took a trip up the Connecticut River in the morning. During the afternoon Ted Van Tassel's Fire-Eaters beat Fat Merrill's Wild Men in a baseball game while others continued their golf and tennis. In the evening dancing and games were hugely enjoyed.

On Sunday some of the boys went fishing and the tennis and golf championships were completed with Joe Fuller winning the former and Stan Hartshorn the latter. Movies and snaps were taken in the early afternoon and there was another ball game later with Merrill's crew reversing the tables on Ted and his Fire-Eaters. In the evening we had an interesting session when each classmate told of his accomplishments, particularly in the last five years and prizes were awarded in addition to those for golf, tennis and fishing. Bill Shepard received the award for coming the greatest distance. We also had an exhibit of a photo-radiogram from Dick Ranger sent by means of the apparatus which he invented and which is now in practical commercial usage. The evening was concluded by an interesting description by Emmons Whitcomb of his recent trip to Iceland.

On Monday morning we had the only bad weather of the week-end and so with the exception of one foursome at golf the morning was mostly devoted to bridge and we made an early get-away shortly after lunch. It was indeed disappointing that our registration was only twenty-six at this Reunion as compared with seventy-three five years ago but when we consider the matter in retrospect it must be remembered that the 1921 affair was held at Plymouth which, of course, is in the vicinity of Boston, while this year's affair was held at Saybrook, Conn., nearer New York than Boston, in the hope that classmates from New York, Pennsylvania and other states as well as a good representation from New England would attend. Your Secretary will be glad to get the word of classmates who did not attend as to what effect the location of this Reunion had upon their attendance. [Sic]

It is indeed a pleasure to add that during the summer there have been two baby girls added to our list of 1911 children. In both cases they were the first to bless the home of the happy couples in question. In early July, Dick Ranger and his wife of Newark became the proud parents of a baby girl, and in early September it was B. Darrell and his wife of Akron who were similarly blessed.

There are also two summer weddings to record. The first on June 8 which it was the pleasure of your Secretary and his wife to attend. At this time Joe French of Detroit married Miss Yoland Christine Tandberg of Dorchester. On August 28 in Cincinnati, Ed Kruckemeyer married Miss Charlotte Roedter. Your Secretary has already, of course, expressed heartiest good wishes to the two couples.

You will all be interested to hear that W. J. Seligman, who formerly operated under his own name here in Boston is now incorporated as Seligman and Company, Importers, and his business headquarters are at 96 Wall Street, New York City. Also Kester Barr has made a business change and is now a sales engineer for the Hagler Zinc Company, Danville, Ill.

During July I had two phone calls from classmates who were just passing through town but only had time to call up from the station: Minot Dennett of Detroit and John Wilds of Chicago. Both reported business conditions splendid in their respective localities and although it was a source of regret not to see them in person, it was a delight at least to talk with them on the phone.

1911 Continued

Bill Salisbury has left Minneapolis and is now with the Guarantee Heart Corporation in Cleveland. He has become actively affiliated with the M. I. T. Alumni Association of Cleveland and is chairman of the Golf Committee of the club at the present time.

In closing let me repeat the announcement I made in the editorial of *Thevelener*, issued last July, to the effect that Harry Tisdale has started with a \$50.00 pledge, payable one year from date, for the 1911 share of the Alumni Dormitory Fund which is to be carried on this fall and your Secretary has followed suit. What are YOU going to do?

ORVILLE B. DENISON, *Secretary*,  
Room 3-207, M. I. T., Cambridge, Mass.

JOHN A. HERLIHY, *Assistant Secretary*,  
588 Riverside Ave., Medford, Mass.

'12 Your Secretary hopes that every one will start the new year by sending in some news. Although five months have elapsed since our last issue there is little of note to report.

Lew Beason sends in a good letter giving his history since leaving the Institute. He has been in the West on construction work and mining engineering since 1912. Upon the death of his father he went into ranching and had charge of some 130,000 acres of grazing land with 18,000 sheep. In 1919, Beason married Mary Munk and they now have two children. At present his address is First National Bank Building, Ogden, Utah.

A. Romero-Moreno has, in conjunction with Luis B. Gonzalez, developed and patented a humidifying device which he is anxious to market. Gonzalez is now located at Stop 46½ Washington Street, Santurce, Porto Rico.

M. F. Graupner is still located in Los Angeles at 843 South Dixel Street. Graupner is still interested in mining development and has an interest in several promising claims.

Harris C. Dexter has just received his appointment as Chief of the Electrical Division, Department of Commerce, Washington, D. C. This is certainly an honor and our congratulations are extended to him.

FREDERICK J. SHEPARD, JR., *Secretary*,  
125 Walnut St., Watertown, Mass.

D. J. McGRATH, *Assistant Secretary*,  
McGraw-Hill Co., 10th Ave. and 36th St., N. Y., N. Y.

'13 Greetings, Classmates, and may you have had a pleasant summer. Like all other humans when there is a long vacation and nothing to do, your scribe has literally done nothing and finds himself in receipt of a letter this morning (on return from vacation) saying that the Class Notes were due last Saturday. The really nice thing about these Review Editors is that they still realize the frailties of a human and aid us poor Secs by being lenient. And of course they must know by this time that the issue would not be complete without the chronicles of that once great Class of 1913.

We have had many pleasant visits this summer from the old guard. Larry Hart took us to lunch and after we had caught that fish again, and yet again, we discussed the weaknesses of Work and Whitehead as regards auction. By the way, Larry states that Fred Murdock called on him at his home and actually saw the fish. If that be so, formal demand is hereby made upon the said Murdock for an affidavit under oath setting forth in detail the history and present situation of the fish. Come across, Fred, and ease up on that new cotton mill you are building in Greenville, S. C., long enough to donate a few notes. Just imagine you are the Class Secretary again. Nufced.

I. Paris of Washington called us on the phone during a hurried trip to Boston and reported that his associate practice in patent and tradé-mark matters is growing steadily and well. Paris has written some very fine papers on certain intricate phases of the patent and trade-mark decisions and more of the same are looked for by the profession. — Major Fay B. Williams, II, who has been associated with Walker and Pratt Manufacturing Company of Watertown, Mass., for seven years, has resigned his position as assistant superintendent and will join the staff of the Curtis Publishing Company of Philadelphia, Penna., about October 1. Keep up the good work of old Ben Franklin, Fay, and let us hear more of the details of your new duties.

David Stern, Treasurer and General Manager of the National Can Company of Boston, called at our office on business and to our mutual surprise renewed old times. Dave is doing mighty well and has been greatly instrumental in developing the fine business of his company.

Captain Edwin C. Gere left the 13th Cavalry at Fort D. A. Russell, Wyo., the middle of August to take the advanced course at the Cavalry School at Fort Riley, Kans. Next year he hopes to take the work at the Command and General Staff School at Leavenworth. Albeit Ed is fast becoming a great soldier man, he is still not entirely divorcing himself from his Technology training for he has done considerable work along construction lines in the Philippines and was in charge of the construction of the U. S. Veterans Hospital at American Lake, Wash. And best of all Ed has a son aged 1, a daughter aged 3, and a wife, age not given. We salute the whole family and wish you well in your journey to the General Staff at Washington, Ed.

F. H. Achard, VI, joined the Brooklyn Edison Company in August and will supervise the administration and instruction of the various courses at the school of the company under the direction of Professor Beach. His new address will be Care of Bureau of Education, Department of Economics and Statistics, Brooklyn Edison Company, Brooklyn, N. Y. We will have more to say about his new work in our next notes.

It was with keen regret that we found Bob Weeks' card on our desk one day this summer and learned that he had been too rushed to wait for a chat. Bob has changed his vocation and is now back in engineering with Day and Zimmerman, Consulting Engineers of Philadelphia. All of which reminds me that the Show this past year was far short of the standard that was on the boards when Bob was General Manager. Perhaps we did not go to New York and all over the map but we certainly had "some show" in those days.

Pa Ready has just returned from a business trip to the Pacific Coast. That is, Pa says it was business but he found time to climb all the mountains in California and became so infected with the germ that he goes out every night and climbs up Corey Hill and on Sundays can be seen prancing over the Blue Hills. There is method in his present madness, however, because Pa found that after climbing some 28,000 feet he had lost his surplus fat and restored his youthful form divine. Incidentally Pa is still in the radio parts game and is soon to put some very fine apparatus on the market that will eliminate certain undesirable and rectify conditions.

Jim Russell pretty near joined the angels or started shoveling coal early this summer. His car was hit by a fast moving trolley and Jimmy was pretty well shaken up. Fortunately no really serious harm was done to Jim but the bus was a washout. Jim purchased a new home in Milton not far from Wollaston and we hope to have some very neighborly visits this winter.

Who is the most celebrated classmate of 1913? Or rather who are the three most celebrated members of the Class? The 1927 *Technique* plans to have a special section of the book in which will be given some of the accomplishments of the most celebrated graduates of the Institute. We are asked to give the names of three Thirteeners as candidates for this new section. If the decision is left to Ye Scribe he will name the first three members who contribute something to the Class Notes. Verily this would be the outstanding achievement of the day. But seriously we must have some celebrated men and it is up to all of us to tell about the other fellow. Probably the individuals will be too modest to tell their own tale so someone else must do it for them. Please write the Secretary or Assistant Secretary giving the names of the three classmates in the order of their importance whom you think are outstanding for their achievements and set down their accomplishments. And do it now.

That is the end of this chapter. To be continued in our next issue — that is maybe, if enough of you Thirteeners sharpen up your pencils or fill your fountain pens and write us.

HARRY D. PECK, *Secretary*,  
99 State St., Boston, Mass.

GEORGE PHILIP CAPEN, *Assistant Secretary*,  
Canton, Mass.

'14 Greetings, one and all! With double greetings to those good members who have started the year right by sending a news item or two. Take Phil Currier for example. He has been at Schenectady with the General Electric Company and never sent in a word; but last summer how he has reformed! First of all comes an announcement of the welcome arrival of Philip Junior on July 10, then a month later a letter in which he states that on September 11 he would sail for South America, taking Mrs. Currier and Philip Junior along too. These plans were evidently carried out because the New York papers of September 11 carried an item of the sailing of the S. S. *American Legion* for Buenos Aires and on the passenger list was Phil, Mrs. Currier, son and nurse



1914 Continued

Phil writes that he is going on a special engineering mission for the International General Electric Company and will be away for from six months to a year. Just to torment us Phil calls our attention to the fact that spring is just starting in the southern hemisphere and that in South America water is used for its intended purpose only.

From Chicago comes real hope. No more will there be a dearth of beauty in architecture, for no less than such prominent architects as How Taylor and Ralph Salisbury have joined hands in the firm of Bentley, Taylor and Salisbury, specialists in architecture and engineering. They are located at 343 South Dearborn Street, right in the loop district and will welcome any Fourteeners who may be seeing Chicago via the Parmlee system.

Mr. and Mrs. L. Standish Hall announced the arrival of John Standish Hall on August 10 at Berkeley, Calif. Hall is just naturally throwing out his chest because he has also an eighteen months old daughter.

The Boston luncheon club is going to miss one of its most enthusiastic members this year. After just ten years on the Institute instructing staff and faculty, Professor Ricker has forsaken his old love and strayed to Raleigh, N. C., where he is Professor of Electrical Engineering at the state university.

It is with great regret that the death of John C. Potter on August 15 is announced. Potter was in Spain in connection with telephone transmission engineering work of great importance for the *Campania Telefonía Nacional de España*. One of his associates has paid him the following tribute: "His zeal and interest in carrying out a tremendous problem of developing a toll network of telephone lines throughout the country, his efforts to further the professional knowledge of his junior engineers and his sympathy and friendliness for all with whom he dealt gained the admiration and affection of all."

Charles Hugh Chatfield, alias Dinny the Great, just could not stand commercialism. He has resigned from the Wright Aeronautical Corporation to retire into the peace and dignity of collegiate work. We welcome him to Cambridge and as Associate Professor of Aeronautics at our own Alma Mater. The Boston luncheon club also extends its heartiest welcome and gives assurance that he will be amply cared for.

The New York telephone group are a modest crowd. Talk with them and you will not gain any idea of the importance of their work, but Fourteen can well be proud of their achievements. In calling on Affel recently in the city within a city at 195 Broadway, your Secretary found that he has recently been advanced to one of those positions where one must enter through various corridors and outer offices and have the proper password. Affel's new position places him pretty much in charge of the installation of carrier frequency toll systems for the whole American Tel. & Tel. Company. Over at the Bell Telephone Laboratories on West Street there are several of our Class doing important work. Horton is still transmitting pictures with a quality that is nothing short of marvelous. Wenty has been working on several important problems including reproducing equipment for the talking movies. Incidentally Wenty is one of those rare species of the telephone organization who has not built a radio set on company time.

Sousa Brooks still maintains that there is more profit in selling shovels than planning where to use them. It must be profitable because when seen walking up Broadway recently Sousa looked as if he had accumulated all of J. Wallingford's millions — new hat, new suit, bay window out front, and everything.

The Class certainly has reason to be proud of the achievements of several of its members in the field of aviation. We have had three interesting events this summer. The appointment of Chatfield as Associate Professor of Aeronautics at Technology has already been noted. Donald Douglass has achieved additional fame because of the design of new planes. An excellent summary of some of Douglass' work appeared in the July 16 issue of the *Los Angeles Times*. While the article was essentially for the purpose of describing Santa Monica it was really all devoted to the work of Douglass. The following phrases have been appropriated from the article titled "Santa Monica attracted Donald W. Douglass. He came without noise or fuss — almost unnoticed.

"But one day all the world listened, waited and watched while four of Uncle Sam's birdmen 'hopped off' from Clover Field to fly around the world. . . .

"The sturdy Douglass planes went around — and could have gone again. . . .

"Last year Uncle Sam held a test airplane event at McCook Field — with foreign and American planes competing. . . . Douglass planes won again. . . .

"And so Douglass planes are carrying the United States Mails, transporting the Army, and carrying the Navy's torpedoes. . . . Douglass is now working on about ten different designs for the Army, Navy, Mail Service, foreign governments, and civilian use. . . ."

We certainly have reason to be proud of Douglass.

There has hardly been an issue of *The Review* in the past that has not told of some new achievement of Pat Adams. His crowning event has just recently occurred. It is with great pleasure that we announce the election of Porter H. Adams as President of the National Aeronautic Association by a unanimous vote. The N. A. A. is the most important Aeronautic Association in the world. The importance of its presidency can hardly be overemphasized.

The election of Adams as President terminates a long fight in aeronautic circles. It has really been a fight between Colonel Mitchell and the more conservative interests. There was even a threat of a break in the ranks of the National Aeronautic Association over the issue. The importance of the position can well be understood when its President is looked upon as the spokesman for the aviation policy of America. It is not to be wondered at that Colonel Mitchell was looked upon as a very likely candidate for the position of President. It is all the more wonder that the nomination committee, headed by Glenn L. Martin, succeeded in bringing about peace in aviation circles and that our own Porter Adams was the man agreed upon.

H. B. RICHMOND, *Secretary*,  
100 Gray St., Arlington, Mass.

G. K. PERLEY, *Assistant Secretary*,  
Holtzer-Cabot Electric Co., 101 Park Ave., N. Y., N. Y.

'15 Another one of the old reliable bachelors has fallen by the wayside. Mr. and Mrs. Charles Edward Ober announced the marriage of their niece, Miss Anne Frances Lee, and Albert Edward Sampson on Wednesday, September 15, at Beverly, Mass. Good luck and best wishes!

Douglas Baker is certainly moving forward in fine style. He is Vice-President and Director General of the *Standard Eléctrica Sociedad Anónima* with headquarters in Madrid. The following is from the *International Telephone Review*: "Announcement is made by the International Telephone and Telegraph Corporation that a new company, the *Standard Eléctrica Sociedad Anónima*, has been organized in Spain for the manufacture of telephone apparatus and equipment. This company will be affiliated with the International Standard Electric Corporation, formerly the International Western Electric Company, which was acquired last year by the International Telephone and Telegraph Corporation. It will take over the Barcelona factory and other properties of the *Telefonos Bell, S. A.*, which was organized in 1923 as a subsidiary of the International Western Electric Company, to manufacture and distribute telephone equipment in Spain, Spanish colonies and protectorates. The new company will continue operation of the Barcelona factory and will begin immediately the erection of a telephone cable factory in Santander and an apparatus factory in Madrid."

Jack Dalton wrote as follows: "I just learned the other day that Tad Fessenden has been in Colorado Springs for his health for some months. He is getting along well, though, and I know all of his friends in the Class will wish for him a speedy and complete recovery. You know Tad is Treasurer of the Riverside Paint and Varnish Company of Boston.

"My vacation on wheels this year took me up through the northern part of the State of Maine and for one day into Canada. The potato fields of Aroostook County were marvelous! On the way back I stopped at the Eastern Manufacturing Company plant at Brewer to see Charlie Blodgett and Charlie Payne. Both are looking prosperous and Charlie Blodgett looks particularly well fed. He still thinks he is enjoying single blessedness, but if given time he will surely fall. Both sent their regards to the boys and each threatened to write you.

"As for myself, things move along without anything new or startling. I am still with the Liberty Mutual and like the insurance business better every day.

"I received a copy of Jim Tobey's Blast but have been too stunned to act on it before." We are all sorry to hear of Tad's trouble.

Herb Surf, who has been with Dennison in Framingham, is returning to the Institute and is to be an instructor under Professor Eames in the Mechanical Engineering Laboratory.—Frank Foster, who was with the Barrett Manufacturing Company, is now with the Cabot Manufacturing Company of Chelsea.—Jack Tobey has been around the Institute this summer and attended a Rotary dinner with the Secretary. Jim will be located in New York this year with one of

1915 Continued

the large milk companies in charge of public relations. This should be just the type of work that Jim is fitted for as enthusiasm and sincerity will be a great asset in this field.

Henry Sheils has had a little hard luck with the garage which he recently built on Queensbury Street with two other associates. From the newspaper account of the suit which is now before the courts one of his associates turned part of the payments from the bank, when the mortgage was consummated, over to the construction mortgagee and the mortgagee pocketed about \$25,000 which he refused to return. Henry has had quite a battle on his hands throughout the construction for after the garage was partially completed the adjoining owners succeeded in having the permit declared void and a long and expensive legal battle was necessary before construction could proceed.

Speaking of troubles, the Scully Company is now before a master in an effort to prevent the continuance of a sympathetic strike called by the Building Trades Council of Boston to enforce a demand which would mean that hoisting engineers employed in the sand and gravel business would average about \$4500 per year. This is the reason a dinner meeting has not been called by the Secretary, the last three weeks having been devoted exclusively to an effort to finish this case. As soon as this meeting is held, Azel Mack will take over the duties of Class Secretary. He is out of town just now or he would have collaborated in this letter.

Weare Howlett was in Boston last week. He, Mrs. Howlett and one of the children had just driven on from Kokomo via Philadelphia. Weare is looking fine and wanted me to remember him to everybody and say that he would always be glad to see any 1915 men if they get out in his territory. He has recently started a new factory with a few other parties, located about forty miles from Kokomo — Lafayette, I believe. This factory is devoted exclusively to the manufacture of cheap tires and, I should judge, has been remarkably successful.

FRANK P. SCULLY, *Secretary*,  
118 First St., East Cambridge, Mass.  
HOWARD C. THOMAS, *Assistant Secretary*,  
100 Floral St., Newton Highlands, Mass.

'16 Here goes for the first launching of the Class of 1916 on its second decade. Your humble Secretary wishes to report to the Class as a whole that sixty-one members received post-graduate degrees at the Mansion House, Fishers Island, N. Y., holding their commencement exercises on June 17, 18, 19 and 20. The principal speakers included all of the illustrious sixty-one at different and sundry occasions when your Secretary failed to have his paper and pencil to take down the famous speeches. In fact, the whole four-day program consisted of such glorious days that I was unable all summer to obtain any concise report from any of the sixty-one in attendance as to just what happened. The nearest I came to obtaining any definite information on the subject was a reply to a letter to Ralph A. Fletcher, who wrote: "My impressions of the Reunion are rather confused and I have no pictures whatever as I did not have time to bother with them. I think the Reunion was a great deal like a fire engine on its way to a fire with the siren tied down."

It is only proper, however, to do some justice to that wonderful four days that we spent together on Fishers Island and I will attempt to recollect certain of the high spots as they pass in panorama before me.

First of all, we have Chuck Loomis, Steve Brophy and Hovey Freeman to thank for the creation of this whole affair in that they began to collect by letters and telegrams early in the year, and by the most marvelous financing, which excelled Ponzi's fondest dreams, created, way back in February sometime, the unheard-of fund of approximately \$1000. Then followed the most perfect direct-by-mail-sales-promotion campaign that any class has ever had to cause us to turn out for a reunion. Orville Denison admitted this himself and we have in our files a complete copy of the entire list of pamphlets, broadsides and postal card notices that were sent out.

Right here and now, I beg all of our classmates who failed to receive these fearful and wonderful pieces of printed matter to correspond immediately with the Alumni Association and turn in your correct address so that you may not, in the future, miss the next affair of similar nature by pleading ignorance of hearing about it.

The fates having decreed that I change my business location from Seattle, Wash., to Boston, Mass., last January some one of the three promoters of our reunion hit on the happy thought of passing the buck of finishing what they started by electing me to the job of chairman of the entertainment committee. They wrote me a letter saying that notices had already gone out to this effect, and all that was left for me to

do was to run the Reunion. At first this seemed a fearful job but after reading the big red, white and black broadside outlining in detail the program and festivities, I could see that it was clear sailing for a good job with no responsibility, and so it worked out to the letter.

Early in the spring Ralph Fletcher and Knight Owen were called upon to assist in this entertainment program and they cooperated to the full extent of their fertile imaginations. It seems of particular interest to know that the whole groundwork of the plot, which conspired to cause all those who should attend automatically to forget home, wife and mother during the Reunion, was accomplished at the old corner stall of the Hotel Lenox Grill where good old Mac, the head-waiter, saw to our comforts as of yore.

The finance committee of the Reunion doled us out plenty of money and we proceeded to spend some of it immediately upon receipt, going so far as to have red shirts made to order, stenciled with a big M. I. T. across the back, which are the pride of each of us as a memento of the occasion.

Fisher's Island was a very happy choice for the Reunion as it was halfway between New York and Boston, thereby drawing to capacity from both centers. On Thursday, June 17, we chartered a suite at the Hotel Lenox where all our properties were mobilized and classmates checked in bag and baggage ready to entrain on the Knickerbocker Limited for New London. Harold Whitney saved the day by offering us his automobile for transportation from the Lenox to Back Bay station. It convoyed relays to Back Bay station with baggage and humanity. Dave Patten, Boston transportation chairman, in some mysterious way had commandeered every compartment on the train, so we had utmost privacy in our three hour expedition. Suitcases were piled ceiling high in each compartment and teetered dangerously on curves and all poker games were immediately stopped if there was any danger of their toppling over.

Then came Epic Number 1, when we detrained at New London and placed our baggage aboard the express truck and wheeled it over to a waiting private fishing boat which had been previously chartered by Ralph Fletcher. The boat being moored outside and adjacent to a retail fishing boat, we formed a human chain line and reloaded the whole truck-load of paraphernalia and shoved off. After this last and most important responsibility was taken off my mind the balance of the four days require extreme effort in describing. I remember distinctly that we commandeered the only available space below decks, improvised a table and continued a fearful and wonderful game of cards. When Harold Whitney placed one hundred bills on that board, I backed it with my last two bits and cards and I finished then and there, but that game continued with varied enforcements with stakes that would make the promoter of a Dempsey-Tunney fight feel like a washout. The wonderful part of this sea-going business was that no one was drowned.

The hotel bears description at this point. It was built on long rangy lines, with infinite corridors and myriads of doors, and, here and there, winding staircases.

Steve Brophy and the advance New York delegation collapsed in our arms and stowed us away in this labyrinth of rooms where we changed our clothes and made ready for battle. We were informed that all business and Class activities were to be held in a small cottage in the rear of the hotel where we immediately reported for action. This cottage bears description. It had one narrow staircase for egress and ingress. Our club rooms were on the second story and consisted of two rooms. At this point I call on any of those who were present in order to say in the next issue of *The Review* just exactly what did happen on Thursday night. It seemed that there was a perpetual Class Meeting in the club house. We did eat, I recall that. I do not think I ever suffered mentally so much in my life as I did in attempting to find my room that first night.

Friday morning brought the main contingent from east and west. Who came? Whom did we greet? I, for one, never will be able to tell. Ten years dims recollections of names, but faces and fine memories, never. Here again I have attempted to obtain the complete list of those who were present but it is just as inaccurate now as the Miami Tornado list, and I suppose it always will be.

What those broadsides tell us was only the half of it compared with what we found. Every form of good sport was offered and used. Every photograph which was taken of our club rooms was either spoiled or destroyed.

Friday evening was the much-advertised shore dinner. A seventy-five-foot table was set on the beach in a private cove with mountains of clams and lobsters, fried chicken and watermelons to stay our stomachs. The principal speaker of the [Continued on page 57]





## INTERCOLLEGIATE ALUMNI HOTELS

Introducing an international effort sponsored by the alumni organizations or magazines of more than eighty colleges and universities to coordinate alumni interests and activities in a selected group of hotels, each of which is specifically prepared to cooperate with alumni organizations and the individual alumnus.





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MULTNOMAH



PALACE

## MAIN FEATURES OF THE INTERCOLLEGIATE ALUMNI HOTEL MOVEMENT

Interested alumni can secure from a clerk at the desk of each Intercollegiate Alumni Hotel an information leaflet which describes in detail the Intercollegiate Alumni Hotel movement.

At each Intercollegiate Alumni Hotel there will be maintained a card index of the names of all the resident alumni of all the participating institutions. This will be of especial benefit to traveling alumni in locating classmates and friends.

The current issues of the alumni publications of all the participating institutions will be on file at each Intercollegiate Alumni Hotel.

Reservation cards will be available at the clerk's desk in each designated hotel and at the alumni office in each college or university. These reservation cards will serve as a great convenience to travelers in securing advance accommodations.

The managers of all Intercollegiate Alumni Hotels are prepared to cooperate with individual alumni to the fullest extent and are also prepared to assist in the creation of new local alumni associations and in the development and extension of the activities of those already formed.





WALDORF-ASTORIA



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The alumni organizations or magazines of the following colleges and universities are participants in the Intercollegiate Alumni Hotel movement:\*

Akron  
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Bates  
Beloit  
Brown  
Bucknell  
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Case School  
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City College of New York  
Colgate  
Colorado School of Mines  
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Cornell  
Cumberland  
Duke  
Emory  
Georgia  
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Indiana  
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Lehigh  
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Oklahoma  
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Rollins  
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Purdue  
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South Dakota  
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Stanford  
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Texas  
Union  
Vanderbilt  
Vassar  
Vermont  
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Washington  
Wellesley  
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Wisconsin  
Wooster  
Yale

\*In most instances both the alumni organization and the alumni magazine are participating as a unit

## INTERCOLLEGIATE ALUMNI HOTELS:

Roosevelt, New York City  
Waldorf-Astoria, New York City  
University Center\*, New York City  
Copley Plaza, Boston  
University Center\*, Boston  
Blackstone, Chicago  
Windermere, Chicago  
University Center\*, Chicago  
Benjamin Franklin, Philadelphia  
Willard, Washington  
Radisson, Minneapolis

Los Angeles Biltmore, Los Angeles  
Palace, San Francisco  
Olympic, Seattle  
Seneca, Rochester  
Claremont, Berkeley  
Onondaga, Syracuse  
Sinton, Cincinnati  
Wolverine, Detroit  
Multnomah, Portland, Ore.  
Sacramento, Sacramento  
Californian, Fresno

Lincoln, Lincoln, Nebr.  
Oakland, Oakland, Cal.  
Lycoming, Williamsport, Pa.  
Mount Royal, Montreal  
King Edward, Toronto  
Coronado, St. Louis  
Bethlehem, Bethlehem, Pa.  
Urbana-Lincoln, Urbana-Champaign, Ill.  
Saint Paul, St. Paul  
Savannah, Savannah, Ga.  
Schenley, Pittsburgh

\*To be built in 1926-27



OLYMPIC



SACRAMENTO



SINTON



KING EDWARD



BETHLEHEM



LYCOMING



SAVANNAH



The Intercollegiate Alumni Hotel movement is the result of a year's effort on the part of a Committee, the members of which have long been identified with alumni work.

The funds necessary to insure the success of the Intercollegiate Alumni Hotel movement are being advanced by the designated hotels, all of which have been selected after a careful study of their fitness for participation.

The committee on organization, the activities of which are controlled by a special group of the members of the Alumni Magazines Associated, has incorporated a non-profit corporation known as the Intercollegiate Alumni Extension Service, Inc., which will direct the policies of the Intercollegiate Alumni Hotel movement and serve as a coordinating unit between the alumni organizations and the designated hotels.

### OFFICERS AND DIRECTORS OF THE INTERCOLLEGIATE ALUMNI EXTENSION SERVICE, INC.

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*The Class of 1916, arrayed fittingly for their four-day Reunion on Fisbers Island, June 17, 18, 19 and 20. It was they who had the banquet "which defies description" . . . which "the Romans attempted to attain but never succeeded"*

1916 Continued from page 52

evening was Steve Stevens who, with red torch, made his oration in five feet of Long Island Sound water and still didn't drown.

On the way back to the club rooms from this shore dinner, Dinah Coleman was discovered en route to the Reunion in the pitch dark, having come all the way from the South. He professes that it was his first lay-off in ten years and he declaimed as his first utterance: "I told my wife on leaving that this was going to be a terrible party, and here I am." Our debate that evening between Harold Whitney and Steve Stevens will always be remembered as the most famous debate ever held in our Class. The debate broke up, or broke down, the narrow stairs by midnight and peace reigned until dawn.

All this time perfect weather from start to finish, continued perfect weather, more golf, more tennis, more arrivals. Even Bill Shakespeare appeared in person on Saturday. O. B. Denison put in appearance in the middle of the afternoon and immediately took charge of the club rooms.

And now comes that famous banquet which defies description. If anyone ever attended a banquet which surpassed that four hours of unadulterated joy, let him proclaim it that we may publish it, for indeed it will be worthy of the section of *The Review* allotted to us. It was a banquet such as the Romans attempted to attain but never succeeded. Just one big table in the form of a U. Bedlam, more bedlam. Classmates, it cannot be described; it was perfect. Speeches were attempted and that's all. Each one of us got to know each other as we never did as undergraduates. It surpassed any event at commencement.

Sunday, the last day, was full of pathos. Though everyone was on the top of the world, you could feel the jaws click as one by one bags were packed. The final picture was that of coming across Long Island Sound into New London Harbor which was decorated for the Harvard-Yale boat races the coming week, with a flotilla of submarines and U. S. destroyers. And so it ended.

Now, this is what it taught us. With the unbounded support discovered, we realized that we had been passing up a volume of real fellowship that should rightfully be kindled at more frequent intervals than once in five years or a decade. The consensus of opinion is as follows: that from now on our Class have at least one Boston meeting and one New York meeting a year apart, and thus continue to foster the good fellowship that was rekindled in June. Let this above description be your determination to answer yes on all future communications to attend functions of the Class.

I speak for the Class when I make the following request. If you have any pictures of the Reunion, send them in. If you have any news items of professional interest to Technology men, write them up and forward them to me that I may present them to the Editors of *The Review*, and lastly, make it your class duty to keep your Secretary informed of your correct address and write me occasionally concerning personal news or news of classmates that you occasionally meet.

And now bits of information that have wandered into my office during the summer months. From a recent issue of the *New York Evening Post* we notice that Robert E. Wilson of the Standard Oil Company received a column on his work with the Company on solving engine troubles due to dilution of lubricating oil in crank cases

and we all hope to benefit by his research.—Gordon Maskew Fair has been appointed Assistant Professor of Sanitary Engineering, beginning on September 1, at Harvard University.

I. B. MacDaniel writes as follows: "I received your memo telling me that at the last class reunion I was elected to the executive committee. Although it hasn't been much in evidence the last ten years, mainly because I haven't seen any Sixteeners, I wish to assure you that my class spirit is as strong as ever and I am now officially reporting to you for duty. In other words, what can I do? For financial or any dirty work just call on me.

"My last two years have been rather hectic—never any place very long and chasing way out to Australia and New Zealand. I have almost lost contact except for *The Review*. That is all changed now, for by the time you will receive this note my new address will be Puget Sound Navy Yard, Bremerton, Wash. We had duty there before and we were crazy about it and very anxious to get back. I expect to be there about four years and then probably the East Coast, Boston or Portsmouth if I can make it. The only Sixteener I have seen is Bud Kaula out in Sydney. He now has one child as you have probably heard. We have a new arrival, making two now—Josephine, aged eight years and Mary Elizabeth, aged four months. Both are red-heads and as good-looking as their mother.

"As for myself, I think I am the same as ever, only younger. I found that smoking interferes with my drinking so I have given up smoking, play a rotten game of tennis and worse golf, am lucky in bridge but the Tia Juana race-horses—thank goodness I will now be 2000 miles from them! I still think the highest form of wit is a pun and my favorite come-back is 'Is Zat So.' I still try to play the piano and still put on shows at the slightest provocation or excuse, am happily married (at present) and think this world is a great old place to live in. I would be tickled to death to see any of the old gang out here so just let me know what boat to meet and then try to get away.

"Let me know if there is any Class work to be done and unless I'm in China or the Philippines you will see me at the next reunion."

From Ray Stowell comes a long lament regarding his absence from the party last June. He, too, has learned that ten-year reunions come only once in a life-time. "You can call me all the names you want and get away with it, because I admit it for not writing you and letting you know that I got the \$10.00 check, which was gladly received, and long spent, and wished I had some more, but don't take this letter as an S. O. S. or a touch, because you are so lucky as to be far enough away to tell me where I can go. But if you were closer, knowing the bag business must be better than the 'akitekural' business, you would stand a chance of being touched, but that is not news to you, and probably an old story, so lets talk about the reunion which I enjoyed (?) here in Boston by working my head off for a gang. After all, what I did accomplish didn't mean a thing, because the whole thing was given up and I was left with nothing, minus a year's work, and about \$10,000 in bills against me, all on account of the fact that instead of getting a job in a ditch when receiving my high school parchment I was lured to higher institu-

1916 Continued

tions and got so loaded down with knowledge and letters that I couldn't carry anything else, and wore out in Technology what few brains the Lord thought the family could spare. And then the old Alma Mater sends me a letter showing a new dormitory to be done by an architect who has more money than the United States Treasury and asks me to pay for it. I call it rubbing it in, and it makes me wish I had packed up my toothbrush and gone to Fishers Island, and beat Chuck Loomis at golf because I am shooting 'em great. But I wasn't there, and I am sorry — not that I missed the fun, but that I missed seeing the best bunch of fellows in the world."

Phil Baker, II, the distinguished Secretary of the Detroit Technology Association, who has for many years successfully evaded the clutches of the fairer sex, has at last succumbed and is stepping off in the near future. His engagement was recently announced to Miss Thelma Parker of Webster Groves, St. Louis, Mo.

The enthusiasm of the Reunion Committee was decidedly dampened by receiving from Walter Reed's parents a clipping describing an automobile accident in which he was killed on April 16.

O. B. Pyle appeared unexpectedly in Detroit the middle of September, just in time to take in the last summer outing of the Detroit Technology Association and to distinguish himself as a golfer. He expects to locate in Philadelphia with the David Lupton's Sons Company. The past few months he has spent with his parents in Florida and Southern California.

RUSSELL H. WHITE, *Secretary*,  
Rand Kardex Service Corp., 114 Federal St., Boston, Mass.  
CHARLES W. LOOMIS, *Assistant Secretary*,  
Bemis Brothers Bag Co., 7338 Woodward Ave., Detroit, Mich.

**'17** Biology and Public Health continue in the ascendant. First Bill Eddy, then Ed Twomey, and now Mahidoll Songkla. The *Transcript* of July 26 reads: "Traveling incognito, His Royal Highness, Prince Mahidoll of Siam, arrived in Boston today as a passenger aboard the S. S. *President Garfield*. . . . Prince Mahidoll appeared on the liner's passenger list as Mr. Mahidoll Songkla. In a reluctant interview with newspapermen he said that he plans to study medicine at Harvard Medical School. The prince formerly was a student at Massachusetts Institute of Technology where he specialized in biology and public health, graduating with the Class of 1917. On the *President Garfield* he was accompanied by two Siamese students, T. T. Twai and M. C. Disuvanti. . . . His baggage included a portable typewriter and a saxophone."

To this clipping was appended a note from our best known anonymous contributor which is fully as illuminating as the *Transcript's* own item: "This isn't the Crown Prince of Siam. However, due to sundry complications he is almost the heir-apparent and may get there. An interview with Claire Turner in the lush Dudbellianbuckscountyindependent style might be in order. To me he was even more incognito as a student than he was to the gentlemen from the *Transcript*."

Another contribution, also from an anonymous contributor, says: "I saw Alex Kenigsberg today parading his eldest progeny along in front of Walker. He is still in Chicago and says he sees Frank Peacock occasionally. Also, last week Frank O'Hara dropped in all rough and ready to stage a tenth reunion right away. I asked him if he hadn't seen anything in the Class Notes about it. He said he hadn't paid his dues. Then I told him I didn't believe there was anything in the recent notes about it but that there would be next year. Whereupon he said he would pay but I couldn't get the money right away."

A third contribution follows, again from an anonymous correspondent who reports that he "made a recent trip bounded by Vancouver on the north, the Mexican border on the south and San Francisco on the west." He says: "Seattle, that brisk and bustling booster metropolis, wears well and a second visit to the city of Tourtellotte-Bradley (Inc.) was a good move. Just now the natives there are worried about their climate which they fear they are going to lose. You see, the dear old Jap current seems to be undergoing some digestive process and after all these years of charming climate the Seattlites or Seattilians are afraid it is going to get hot like Portland. Be this as it may (and Portland does get hot), at least one secret is out. This is the reason why they don't let visitors get up early in Seattle. A man in Portland gave it away when he asked, 'Didn't you see any fogs up in Seattle?' 'What!' 'Sure, fogs, early morning fogs.' 'Oh well, they only come in the morning.'"

He continues, "The Firm of Tourtellotte-Bradley seems to be prosperous. They have a new office and an ingenious mirror. Whether this is entirely due to Neal's natural ability or whether Don Bradley isn't a fair sample of the Class of 1918 could not be determined. At any rate,

when members of the alumni body visit Seattle in about three years from now they will probably find sidewalks of inlaid linoleum after passing city gates of brassy bronze. These latter, however, will not be designed by Bob McClelland, that rising young store front architect who treated your correspondent like a book agent.

"A diligent search over sundry haunts in Frisco and Los Angeles did not reveal another Seventeen, but in Coffee Dan's early one morning your correspondent did find a 1916 man. However, he was out of a job and didn't have much to say except that he had heard something about his Class having had a Reunion last June. Back East in Chicago, Penn Brooks was uncovered in the throes of determining the breed of electric toaster the well-dressed Texas farmer will wear next winter."

It is our sad duty occasionally to record the death of a classmate, Edward L. Clark, V, who died July 30 at Thetford, Vt., after a period of increasingly poor health. It will be remembered that Clark, who was born in Japan, was a member of the Cosmopolitan Club, and very active in the affairs of the Technology Christian Association. He held degrees from Oberlin and Union as well as Technology. Since graduation he was employed by the General Electric Company here and in the Far East, in various capacities, finally being assigned to the Meter Research Laboratory because of his demonstrated inventive ability. He is survived by a widow and three sons.

Another Class Secretary, not content with compiling his own notes, sends choice bits for the Seventeen column. This time it is a word about the long-lost John DeBell, and it will bear reprinting verbatim: "In the next issue of The Review you could well write an article regarding John DeBell. I doubt if you ever get any correspondence from him but he certainly is entitled to a mention in your notes."

"I recently visited him at the Pittsfield Works of the General Electric Company and had a good chance to see what he is doing. He is working on moulded material and is making wonderful progress. I could not help but feeling that he, personally, was in quite a measure responsible for the fact that their moulding department has been doubled during the past year. Not only does DeBell appear to be making great progress technically but he certainly is well liked by the people in the plant."

"Oteka" — Hot Stuff. At least so says a circular of A. K. Althouse and Company, miners and shippers of Oteka Coals, Philadelphia. In the words of the circular, "To the Indian known to our forefathers Oteka meant Hot Stuff." Unfortunately the full circular cannot be published. It was given to Bill Eddy by Oteka Althouse on the way to Nantucket this summer, and it not only gives the romance of the discovery of the mines, but many cogent reasons for its purchase, and a tempting dotted line at the end.

The following announcement has been received: "Mr. and Mrs. Abraham Passell announce the marriage of their daughter, Agnes, to Mr. Illes Edmund Waechter on Sunday, August 1, 1926, Cleveland, Ohio."

Coincident with the report of a gain of \$9,000,000 over the previous year and the largest sales in history by the Hood Rubber Company, comes the announcement of recognition of those responsible, including the election of one Richard T. Whitney as Assistant Treasurer. At least it was all in the same item, and Dick had been there several weeks.

The financial columns of the Boston newspapers this summer also contain the announcement that Mr. Richard Hardwick, who for many years has been associated with E. M. Hamlin and Company, has been admitted to partnership in their firm. To those who do not read the financial columns regularly it may be said that E. M. Hamlin is a prominent financial house, with membership on the New York, Boston, Chicago and various other stock exchanges.

Hardly less startling is the announcement in the Boston *Herald* of the engagement of Loosh Hill. "Of interest in Boston is the engagement of Miss Helen Isham of Chicago to Mr. Lucius Tuttle Hill of Monmouth Street, Longwood, the announcement being made by Mr. Henry Porter Isham of Chicago and Lake Forest, brother of the fiancée. Mr. Hill is the son of Francis A. C. Hill and the late Mrs. Hill, and a grandson of the late Lucius Tuttle Hill. He was graduated from the Massachusetts Institute of Technology with the Class of 1917 and saw active service overseas in the artillery with the rank of captain. He is a member of the Union Boat, Exchange and Longwood Cricket Clubs.

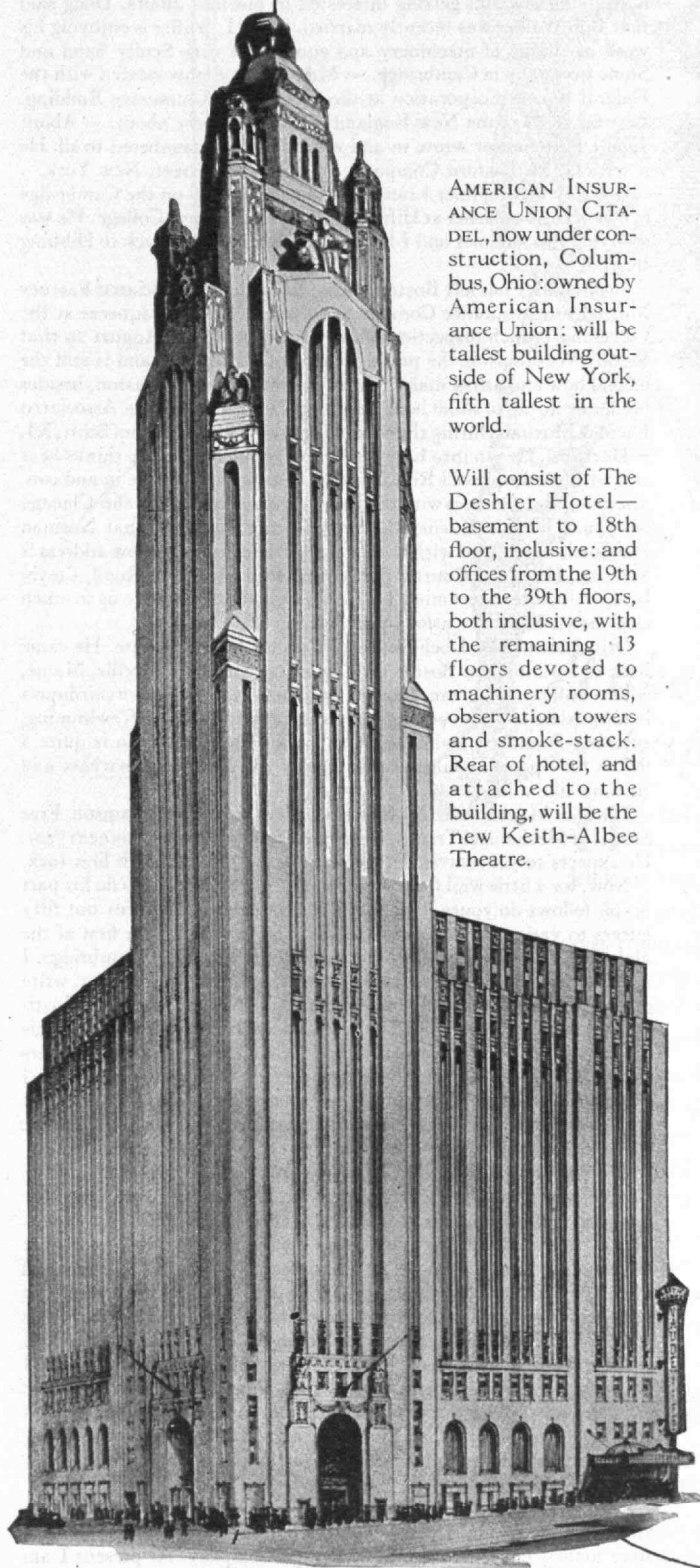
"Miss Isham is the daughter of the late Dr. and Mrs. George Snow Isham of Chicago. She attended Miss Porter's school at Farmington and Vassar College, and in 1922 made her debut in Chicago, where she was elected to membership in the Junior League."



C. HOWARD CRANE,  
Architect, Detroit, Mich.  
J. UPTON GRIBBEN,  
Resident Architect,  
Columbus

THE HUFFMAN-WOLFE  
COMPANY,  
Heating and Plumbing  
Contractors, Columbus

MR. RAY S. WILDE,  
Consulting Engineer,  
Detroit, Mich. Designer  
of the heating,  
plumbing and  
power equipment.



AMERICAN INSURANCE UNION CITADEL, now under construction, Columbus, Ohio; owned by American Insurance Union; will be tallest building outside of New York, fifth tallest in the world.

Will consist of The Deshler Hotel—basement to 18th floor, inclusive; and offices from the 19th to the 39th floors, both inclusive, with the remaining 13 floors devoted to machinery rooms, observation towers and smoke-stack. Rear of hotel, and attached to the building, will be the new Keith-Albee Theatre.



The 555½ foot — 52 story

## AMERICAN INSURANCE UNION CITADEL

### Includes

## JOHNSON DUAL THERMOSTAT TEMPERATURE REGULATION

Again automatic temperature regulation receives convincing endorsement, and The Johnson DUAL SYSTEM again is given preference — with one of the most impressive and significant installations ever made: this hotel, theatre, office building.

Johnson Temperature Control, with Ventilation Equipment, is specified for the 18 floor hotel portion complete — including lobbies, foyers, dining rooms; and the huge, new Keith-Albee Theatre adjoining.

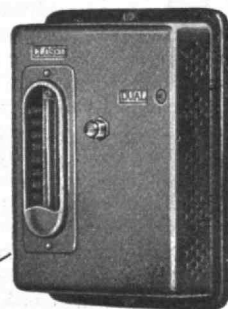
Johnson System of DUAL THERMOSTAT Temperature Regulation is specified for the offices — 19th to 39th floor — in *two groups*: one exclusively for the offices used by the American Insurance Union, one for the separate offices of the building's tenants.

Each of these two groups of the thermostats will be operated by pneumatic clocks; which automatically will turn the system of control from day to night condition in vacated rooms at the end of day, and back again, automatically by the clock, and as specified by the building's or offices' management. In rooms used during the evening, day time normal temperature will remain until twelve-thirty midnight; when the temperature will be turned to night condition by the same clock, and, as above, restored to day time normal again next morning. Obviously, enormous fuel saving effective heat regulation night and day. And the entire installation is so arranged that future partitions can be erected on the floors of the building without necessitating any cutting or patching to install thermostats for future use.

Johnson Dual Thermostat Control is similarly included in many classes of buildings all over America. Full detail particulars furnished on request.

**JOHNSON SERVICE COMPANY**  
Main Office & Factory: Milwaukee, Wisconsin, U.S.A.

Automatic Temperature  
Regulation Since 1885.  
The All-Metal System.  
The Dual Thermostat  
System.  
Twenty-nine Branches:  
United States and Canada



1917 Continued

Several contributors have forwarded an announcement by Walter A. Wood of his establishment as a purchasing engineer at 151 Fifth Avenue, New York. According to the announcement his activities include: Analyzing situations where new equipment is contemplated, and determining all of the types and makes of equipment which may be used; discussing the situation with the manufacturers' and the buyers' representatives; and preparing specifications which cover the need, but allow as much competition as possible; studying and reporting on the performance of proposed equipment in other installations (or in test installations); submitting specifications to all qualified manufacturers, and analyzing their proposals; in general, assisting the buyer as much as possible in his dealings with sales engineers.

Captain Jesse Rogers stopped in here on his return from Honolulu. His next assignment is to Columbus, Ohio, where he has even more responsible army work. — Hamilton L. Wood came to Boston on July 1, and is established with the Boston Insurance Company at 50 Kilby Street. Hamilton intends to take active part in all Class affairs from now on and will certainly be anxious to be present at the Class Reunion next June.

Thomas Ryan is now assistant general manager for Thompson-Starrett, General Contractors in New York, and is in charge of their operations at the new Hotel Ambassador in New York. — Frederick Bernard is now associated with the Boston agency of the Northwestern Mutual Life Insurance Company at 31 St. James Avenue, Boston.

The Chromium Products Corporation of America, 121 Broadway, New York, has announced that its organization is to take over the patents of the Chromium Plating Process, developed by the Chromium Treatment Company and the Chromium Products Corporation, the latter a subsidiary of the Metal and Thermit Corporation. Vice-Presidents in charge include Richard O. Loengard. It will be remembered that Dick has been with the Chromium Products organization since its formation by the Metal and Thermit Corporation.

Mr. and Mrs. Carroll C. Smith announce the birth of a daughter on August 26, 1926.

The following is from the *Transcript* of August 16: "Captain A. Raymond Brooks of Framingham, Mass., has been engaged by the Department of Commerce to survey the lighting needs of the New York-Boston airway, it was announced by William P. MacCracken, Assistant Secretary of Commerce for air. The appointment is a result of conferences held by the new air secretary on August 14 on beacon lighting aids to air navigation. The captain, who was an American ace in the World War, will begin his survey early this week. The problems, Mr. MacCracken explained, are what lighting service shall be installed between New York and Boston, the kind of lights needed, the intervals at which they shall be located and other questions of conditions, kinds and number, with a view to perfecting as far as possible the work of guiding air pilots on this part of the air navigation system. Captain Brooks is on leave of absence from airway work in Florida."

You have all received letters from Johnny DeBell and MacGrady about the Reunion next June. Great interest has already been shown in the Reunion, and there is every indication that it will go down in history as one of the most successful Technology class reunions. The Tenth Reunion is traditionally the best attended and the most successful of the gatherings in each class. With a little imagination we can picture what it will be with 1917.

RAYMOND S. STEVENS, Secretary,  
30 Charles River Road, Cambridge, Mass.

'18

Here is my first offence as a writer of 1918 notes for The Review. A more or less chronological account seems best for this attempt, so here goes.

On June 7 we wound up the 1918 luncheons, until October, 1926, by meeting at the Engineers Club in Boston. Ed Rogal wound off one hundred feet of film which was taken at the May luncheon. He also ran the film backwards to the merriment of all concerned.

After lunch twelve of the crowd bowled at the Huntington Club. There was a spirited match and a corking good time. Some of the boys took in a swim after the bowling. It was a great wind-up and we hope to see more than ever at next year's luncheons. Those present were: Johnnie Clarkson, Chink Watt, Harry Camp, Arthur Russell, Ed Rogal, Braaten, Frank Woodruff, Paul Howard, John Damon, Eli Ber- man, Ray Miller, Erving Betts, Jack Hanley, Hancock, Hatch, A. F. Howard, I. I. Young, J. T. Kiley and Miss Gretchen Palmer.

On June 23, H. D. Manuelian dropped in to see me. He had been in Florida in real estate operations, and lists as an industrial engineer. He wished to be remembered to all Eighteeners. — John Purves was in this summer. He is development engineer with the American Chain Company, Bridgeport. He said that Wirt Robinson was on the *Industrial Power* magazine staff at 50 Church Street, New York. He has recently become father of a third daughter. He also said that R. Parry Kennard has moved from Stamford to Bridgeport and is manufacturing oil burners.

Doug Buchanan was in town July 9. He is expert on conflicting patents at Washington. He sees Ed Cameron once in a while and says Ed is studying law and getting interested in business affairs. Doug said that Bob Walker was recently married. — H. L. Miller is enjoying his work in charge of machinery and equipment with Scully Sand and Stone Company in Cambridge. — Max Seltzer is now located with the Federal Burner Corporation at the Chamber of Commerce Building, Boston, and has the New England district to worry about. — About June 1 Pete Sanger wrote in and wished to be remembered to all. He is with G. M. Basford Company, 17 East 42nd Street, New York.

One day this summer I ran into Maurice Gelinis on the Cambridge subway. He is a teacher at Hibbing, Minnesota, Junior College. He was studying this summer and I believe he intended to go back to Hibbing this fall.

Jack Hanley has left Boston. He is still with the Associated Factory Mutual Fire Insurance Company and will be the main squeeze at the Cleveland branch inspection office. Jack reported on August 29 that Freddy Washburn is the proud father of four children and is still the official bow and arrow maker for all the children in Wollaston, besides his heavy duties of small boat designing. He is also with the Associated Factory Mutual. During the winter Jack saw a lot of Warren Scott, XI, in Hartford. He ran into Larry Starr in Providence and he thinks he is still with the Improved Risk Mutual. (Larry, please write in and confirm this.) Bob Grobe is with the same company as Jack, in the Chicago office, and lives in Evanston. Warren Scott told Jack that Norman Dawson is in Chicago with the Sanitary District. Jack's new address is Suite 21, Hampton Court Apartments, 2901 Hampton Road, Cleveland, Ohio, after September 15. Jack is a good scout to give us so much clear news. He wrote a four-page letter.

Otto Lorenz has, I believe, settled up his father's estate. He came back to Scranton via Boston on August 14, from Sargentville, Maine, with a million dollar tan. He also has a few more pounds avoirdupois in his possession. His vacation consisted principally of golf, swimming, catching flounders, and consuming loads of tobacco. Otto is quite a fellow for Spanish countries and knows the European markets and customs like a book.

Elwood Manter will be Superintendent of the Williamson Free School of Mechanical Trades, Delaware County, Penna., this next year. He expects to get married in a month or so, too. We wish him luck.

Now, for a little wail from your Secretary who is going to do his part if you fellows do yours. It is just this: On August 14 I sent out fifty letters to various members of the Class of 1918 along the first of the alphabet, and chose men within five hundred miles of Cambridge. I asked for vacation news and said to merely turn over the letter, write on the back how you spent the summer, and mail it to me at the Institute. How many replies did I receive? Exactly and correctly two. This is four per cent and I have heard some of the men to whom I sent letters and who did not reply, crabbing because we have no notes. How can I write notes if I have to depend on my imagination? I warn you that I have promised this Class some notes. Therefore, if I have to write what I have to imagine I shall probably stir up considerable disturbance.

George Brewer and T. V. Brosnahan were the two who replied. George wrote as follows: "If this is too late for the issue originally intended it will be just as good in the next one. The dope on my vacation is very slim. Last spring I got a new job and haven't been at it long enough to rate a vacation. I had been with the U. S. Bureau of Mines for six years and thought that if I didn't get out of government work before long I'd petrify into one of the minerals the Bureau plays with. I had been doing combustion engineering with the Bureau and when I changed to the new job I continued the same sort of work. I am with the Erie City Iron Works, Erie, Penna., and spend most of my time on problems connected with the combustion of pulverized coal in steam boilers. The company manufactures coal pulverizing machinery and boilers, so, since they pay me for doing it, I help them all I can."

Here is the letter from Brosnahan: "You have surely made a good start as Secretary by writing to every one of us. I am training for a store managership with the S. S. Kresge Company. At present I am





## *Take a tip from the triple-threat man*

**H**E keeps them guessing, does the back, because when he gets the ball he can pass, kick or run—a triple threat.

Men preparing for industry or commerce can put themselves in an equally strategic position. It all gets back to the simple idea of being broad and versatile.

An engineer should be well up on his specialty, of course, but he should also keep an open mind for questions of finance, law and public relations—if he aspires to a high place in the councils of his organization.

Such “all-aroundness” typifies in particular men who have brought the electrical communication industry to what it is today, and who will carry it to still greater development in the years to come.

*Published  
for the  
Communication  
Industry  
by*

# *Western Electric Company*

Makers of the Nation's Telephones

*One of a series of announcements appearing in student publications and aimed to interpret to undergraduates their present and future opportunities.*

1918 Continued

located in Boston, but may be shifted at any time. Every day I see upwards of ten thousand people representing many stations of life from General Edwards to the North End kids. It is rarely, however, that I run across any former classmates. Johnny Clarkson blew in one day for some curtain rods and Manter has been in two or three times. Professor Schell promised to look us over and watch the rapid accumulation of nickels and dimes, but he hasn't appeared yet.

"Early in June I made a whirlwind trip, stopping at Buffalo, Erie, Cleveland, Detroit, Chicago, Milwaukee, St. Louis, Memphis, El Dorado, New Orleans, Birmingham, Cincinnati, Pittsburgh, New

## "HELD ON THE 2-YARD LINE"



HERE'S no more heart-breaking experience than to see the team battle its way down the field—around end for a yard or two, off tackle for a few more—only to be stopped dead and held for downs with a touchdown and victory only two yards away.

Just one ounce of extra power would have won the game. But the team lacked just that—that little ounce of *extra power*.

Every business office has dozens of men competent to do their routine work well, who can become sub-executives or assistant managers.

But there are only one or two men who—either thru years of experience, or else by carefully directed, intelligent study—know the ins and outs of their business, know it in *all* its departments. These are the men with the vital *extra power* that carries them over the line into the higher positions, and into the firm when the openings come.

.....

For years the Alexander Hamilton Institute has specialized in the single task of training men for the higher executive positions in business, of giving them that "ounce of extra power" that makes all the difference between mediocre success and the really big things of life. Into the Course have been built the experience and methods which have made many of today's business leaders pre-eminent.

Not for one moment do we claim that we have any magic formula for success. But we *do* make it possible for you to gain in a few months' study what it would take you years to gain thru experience.

The Course is not a substitute for hard work or common sense.

We don't take credit for the fine work done by our graduates any more than Yale and Princeton and Harvard take credit for the success of theirs. We simply give men the facts they need to gain the *extra power*. If they are big enough to use these facts, they succeed. If they aren't—they would have failed anyway.

The Course and Service is arranged and conducted in accordance with University practice and ideals. Like the University, the Institute urges no man to accept its help; but, seeking the widest possible field of service, it offers information freely.

A booklet has been prepared that gives all the facts about the Institute. More than 100,000 college graduates, now in business and the professions, have read it. It answers questions that have doubtless been in your mind. It indicates definitely how this training can be useful to you in the work you are doing, or would like to do. If you would care to have a copy, write us.

ALEXANDER HAMILTON  
INSTITUTE

661 Astor Place

New York City

York, Bridgeport and Waterbury. It took three weeks and cost three hundred. My object was to study the ways and means in some of the other Kresge stores and incidentally to see a part of the country."

George Sackett wrote on September 12, telling us that he has succeeded in making a very good connection with his old friends the Goodyear Tire and Rubber Company as a chemical engineer. He is at 284 Crosby Street, Akron, Ohio, until October 1, when he will be at Mayfield Apartments, 222 Twin Oaks Road, Akron, Ohio.

And now one more thought. I am taking those proofs which we had taken for *Technique* and pasting them to each man's record card in the Class file. Some of the pictures do justice to you fellows as you appear now, but the rest are the funniest looking things out, especially mine. So, when you write in please send one of your latest snapshots to supplement the rogue's gallery. This will help me to see the man about whom I am writing and will lend local color.

Now, please don't wait for a letter asking for material but write to me at *Technology*, even if only on a penny postcard. I will see that it is published.

RAYMOND P. MILLER, *Secretary*,  
Room 3-210, M. I. T., Cambridge, Mass.

'19 No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review Office. Members of the Class having news or inquiries should address them to Paul F. Swasey, Secretary, at Box 1486, Boston, Mass.

'20 No notes have been received by The Review Editors from the Secretaries of this Class for inclusion in the November issue. The Secretary received the usual notification that copy was due, accompanied by such news as had been compiled in The Review Office. Members of the Class having news or inquiries should address them to Harold Bugbee, Secretary, at 9 Chandler Road, West Medford, Mass.

'21 Memories of five years out, the gang spread all over the world, hard labor now instead of just passing a course in hydraulics or applied, engagements, marriage, development of business, parental dignity—all at The Cliff Hotel, North Scituate, Mass., on June 25, 26 and 27.

On the shores of the good old Atlantic—it sure looked good when you hadn't seen it for years—our Five-Year Reunion opened on Friday, June 25. Sports all day included tennis, golf, swimming, baseball, duck-on-the-rock and bull throwing. About fifteen of the bunch arrived on Friday. After supper and a ball game, a round table of "what's happened to me since I left the Institute" was indulged in, to the interest of all. A couple of high-class, Course II, men fixed a music box, manufactured in the year 1600, so that several could keep their dancing toes from getting cold. There were no girls, so the dance was short. Several new steps were developed during the struggle, but they were not appreciated and have passed unrecorded.

Saturday was the big day and many more arrived making about fifty in all. Ed Praetz, II, played tennis and saw to it that everyone who had the slightest inclination to do likewise was taken care of. Ready, I, Aronson, XIV, Vitalini, II, Stose, XIV, Breed, X, and others took a work-out on the courts.

Wood, XV, sponsored the golf and wielders of the clubs included Delaney, I, Vaupel, I, Rogers, X, Thomson, X, and others. The gallery really should have paid to see the brand of golf that was played. For example, Bill Leonori explained that his golf togs had never been used for golf before but instead were a yachting habit. Bill couldn't stay long enough to acclimate his clothes to the game.

Although the water was so cold that it promoted paralysis, a number went in including Breed, X, Vitalini, II, Stose, XIV, St. Laurent, X, Binns, X, Richardson, VI, and Ready, I. Some folks are like the blind mule butting the stone wall, they just don't give a darn. It took tag, tumbling and duck-on-the-rock to restore normal circulation in the chilled bones.

While all this was going on Charlie O'Donnell, II, was collecting information on every Twenty-oner who blew in and Charlie had his hands full. Preserved for the archives we have a book of straight facts and pictures showing how they looked after five years of struggle with the world. Five years hence, new entries are to be made on the same pages. Thanks are due to Charlie for the information collected.



1921 Continued

The big event of the Reunion was the banquet held Saturday night with Charlie O'Donnell, II, as Toastmaster Supreme, and Bill Ready, I, as Secretary Delicious. A few moments of silence were observed in memory of those who have left our ranks and passed on. Bill Ready, I, read a number of communications received from Twenty-oners not able to be present. Jack Kendall, XV, let us know that as much as he would have liked to have been present he preferred Honolulu as a honeymoon spot to "noisy, muddy, goofy Boston." More about Jack comes later.

Next came a report from the Secretary-Treasurer which was accepted. Reg Smithwick, III, spoke at length on the dormitory problem at the Institute and much timely discussion took place. A committee was appointed to give consideration to the problem and report on Sunday. The committee consisted of Howard Mac-Millin, II, Chairman, Bill Kennedy, II, Bill Ready, I, Charlie O'Donnell, II, and Ray St. Laurent, X.

Sentiment in favor of '21 giving support to athletics was expressed. Motion made by St. Laurent, X, to subscribe \$50 per year to athletics was passed unanimously. Stose, XIV, moved that voluntary subscriptions may be received by the Secretary-Treasurer and paid for athletics over and above the regular \$50 subscription. The motion was passed. Chet Wood, XV, after a few words on this subject started the hat around and \$40 was collected. This makes our donation this year amount to \$90, a fair sum for a most deserving cause. Other classes please note. With the Stein Song the banquet adjourned.

But the banquet was not enough for Saturday night. Bill Ready, I, had a surprise in store at midnight with a bonfire, beach party, hot dogs and coffee. All but a few were then ready for bed when Peirce, XV, blew in from Philly, having driven up in one day. Of course acquaintances were renewed and bed was seen later. For the information of those who are wondering, Manager Fisher of The Cliff Hotel stated that this was the most orderly reunion that he had ever seen.

Sunday the 27th brought more new faces. Golf and tennis continued and more hands that had not met in five years were shaken. The Committee on Dormitories met and came to the following conclusions: 1. That our Class should give support to the program going on to provide Technology with more dormitories. 2. That our Class

yearly dues should be increased to give the proper support. 3. That before proceeding we get in touch with the Dormitory Committee of the Alumni Association for further facts to make our efforts most effective. 4. That announcements be sent to the Class as soon as possible.

After dinner on Sunday farewells took place and promises were made to be back at the next Reunion.

Below follows the information diligently collected by Charlie O'Donnell, II, for the permanent record of our Five-Year Reunion. A few escaped Charlie and they are asked to write him at 60 Varnum Street, Lowell, Mass., so his records will be complete. Pelkus, X, and Peirce, XV, and others please note.

Howard F. MacMillin, II, 217 West High Street, Mount Gilead, Ohio, is Vice-President in charge of sales and advertising of the Hydraulic Press Manufacturing Company, 20 East Broad Street, Columbus, Ohio. Mac has been with the above company since leaving the Institute. He is married and has a two-year-old heir, Norman Francis.

Donald H. Hatheway, VI, 54 Flint Street, Somerville, Mass., is technical assistant in the electrical division of the generating department of the Edison Electric Illuminating Company of Boston, 39 Boylston Street, Boston. Don says he does general work in the department where "we make the juice." From August, 1921, to September, 1925, he was with Westinghouse Electric Manufacturing Company, East Pittsburgh, Penna. Don is not married.

Edward P. Wylde, X, 19 Orchard Terrace, North Adams, Mass., is a consulting engineer doing development work on textiles. For a year Ed was with Wilson and Company, Chicago, and for two years teaching high school. Yes, Ed is single.

Henry R. Kurth, VI, 6 Healey Street, Cambridge, Mass., is assistant to the chief system operator of the Edison Electric Illuminating Company of Boston. Chick has progressed to his present position with this company having previously been laboratory engineer, and later technical assistant in the Generating Department. Chick is married and has two children.

Ralph W. Wood, XV, 121 Albert Avenue, Edgewood, R. I., is selling Maytag Washing Machines for the Wellen Company, 634 Broad Street, Providence, R. I. Chet said he is not married so far as he can recall. After leaving the Institute he worked in the finishing

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1921 Continued

business of the U. S. Finishing Company, Pawtucket, R. I., but found the radio business more entertaining. However, poor business and rotten weather made a change desirable.

Charles H. J. O'Donnell, II, 60 Varnum Street, Lowell, Mass., is an industrial engineer for the Lowell Gas Light Company, Lowell, Mass. His job is to keep gas sold to various local industries and to develop house heating with gas. Since leaving Technology, Charlie has worked with the General Electric Company at Lynn, Mass., then with the Frederick Iron and Steel Company, Frederick, Maryland, as designing engineer on rotary vacuum pumps for paper mill work; then as designing engineer for the Lowell Gas Light Company until July, 1925, when he took over his present work. Married — not yet. Charlie was recently elected Secretary-Treasurer of the Technology Club of the Merrimack Valley.

William C. Ready, I, 10 Bertha Street, Lowell, Mass., is building engineer for the City of Lowell, where he has charge of the approval of plans, building inspection and so on. Bill started as assistant engineer in the Engineer's Office, Lowell, and became building engineer on February, 1924. Bill is an evening instructor in mechanical drawing at the Lowell Textile School and also is President of the Technology Club of the Merrimack Valley. Another single man.

Edward F. Praetz, II, 131 Haverhill Street, Lawrence, Mass., the third of the three go-getters from Lowell and Lawrence, is a teacher of mechanical drawing and industrial arts at the Lawrence High School, Lawrence, Mass. Ed says he's not married but is engaged. After leaving school he was first in the research department of the General Electric Company at Lynn, Mass., then in the research department of the Saco-Lowell Shops, Lowell, Mass., after which he was a patent examiner in the Patent Office in Washington. Ed's Vice-President of the Technology Club of the Merrimack Valley.

A. M. Aronson, XIV, 228 Bidwell Avenue, Jersey City, N. J., is Secretary-Treasurer of I. Aronson, Inc., at the above address, and in the business of plumbing and heating contracting. After a year and a half at politics, Aronson organized the above contracting company and has been making good progress. Single also.

Kenneth H. Pratt, V, 226 Ocean Street, Lynn, Mass., is assistant engineer in the turbine engineering department of the General Electric Company, West Lynn, Mass. Ken is engaged in the designing of tur-

bines. From September, 1921, to June, 1922, he studied mathematics in the Graduate School at Harvard and then worked in the Thomson Laboratory of the General Electric Company under Dr. Hollnagel. In June he was transferred to the Schenectady office of the General Electric Company to carry on electrical investigation under R. E. Doherty, consulting engineer. Ken started his present work in March, 1925. Another single man.

Walter R. Vitalini, II, 151 East Main Street, Milford, Mass., is a successful coal dealer, finding this work better than engineering by far. For three months Vit taught at Technology and then spent three and one-half years with Dennison Manufacturing Company, Framingham, Mass., doing research and experimental work, drafting and designing until his health failed. The coal business has brought back health. Although Vit is not married he says that he has high hopes.

Harold F. Stose, XIV, 371 Broadway, Cambridge 39, Mass., is carrying on development work on new goods as research engineer for the Hood Rubber Company, Watertown, Mass. Stosie took Course X-A for a M.S. degree and then was in the Research Laboratory of Applied Chemistry until 1923 when he joined the development department of the company that he is now with. Still another single man.

C. A. Breed, X-A, 47 Gay Street, Newtonville, Mass., is a chemical engineer in charge of vulcanizing processes at the Hood Rubber Company, Watertown, Mass. Al has been with this company since leaving school. He was married in October, 1922.

J. Dana Richardson, VI, Billerica, Mass., left Technology after one year and joined the army. After the war he went into the lumber business with his father and also has been engaged in radio work. Married — yes.

William F. Kennedy, II, 16 Belmont Street, Fall River, Mass., is a sales engineer with the Standard Oil Company of New York, 26 Broadway, New York City. For three years Bill was production engineer with the Sullivan Machinery Company. Then for two years he was sales engineer on high pressure hydraulic equipment for the Hydraulic Press Manufacturing Company. Bill's work now is sales development and research with the Standard Oil Company of New York. Not married either.

J. Ernest D. Clarkson, II, 914 South 46th Street, West Philadelphia, Penna., is a special engineer in the power department of the Atlantic Refining Company, 3144 Passyunk Avenue, Philadelphia, engaged in efficiency and development work. After taking a long vacation in 1921, Clarkson joined the research department of the General Electric Company at Lynn, and since March, 1922, has been with the Atlantic Refining Company on construction work in the Mechanical Department, process work in the Lubricating Department and now in the Power Department. Married — yes.

George Thomson, X, 6 Regina Road, Dorchester, Mass., after receiving his M.S. degree was an instructor for four years in the Physics Department at Technology. This summer George made a seven weeks' tour of the United States and your Secretary just recently saw him in Chicago. He plans to return to Technology this fall and start work for a doctor's degree. Also not married.

S. M. Silverstein, X, 15 Brockview Street, Dorchester, Mass., is a consulting engineer and director of the industrial research division of Bigelow, Kent, Willard and Company, 1020 Park Square Building, Boston. After receiving his M.S. degree Sol was appointed an assistant director in the School of Chemical Engineering Practice for one year. He then went with Guggenheim Brothers to do research work. In 1924 he joined his present concern where progress has been fast. Not quite married.

Jackson W. Kendall, XV, of Brown Transfer and Storage Company, Pasadena, Calif., could not get to the Reunion because he was busy honeymooning. At this writing your Secretary has not received official word of the wedding but the engagement announcement said that Miss Marjorie McCutcheon of Greeley, Colo., was the young lady. Miss McCutcheon had been teaching science and mathematics in Santa Monica public schools for the past three and one half years. She is a graduate of Colorado Teachers College and completed a year of graduate work at the University of Colorado. Jack is running the Crown Transfer and Storage Company in addition to carrying on his real estate activities.

That's all now. There are to be more in the next issue.

R. A. ST. LAURENT, *Secretary*,

431 Oliver St., Whiting, Ind.

CAROLE A. CLARKE, *Assistant Secretary*,

121 Shearer St., Montreal, P. Q.

## SERENITY

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'22 So far as the course secretaries seem concerned, the Gensec needn't have hurried back. He needn't have come back at all. Despite that he wrote a particularly appealing set of letters to each and every one at the strictly appointed time, the secretarial communications in response amount to one — count it — one letter of regret that time pressed too greatly. That letter was from Henry John Horn the Second, who is so hard at work on reunion plans for next June that he has had time for naught else. Excusable, understandable, plausible, even commendable. As for the rest, the bitten thumb, the torn sleeve, the wine glass in the face. They can all — but this is a family magazine.

Something of Continental insouciance filtered into our system this summer, however, with the rest of the miscellany, and there will be no tantrums pulled over this mass failure — discouraging as it may be for the start of the year. In June, next year, at the reunion (and what a reunion it is going to be!), there is going to be a violent upheaval in the secretariat, and a number of personnel alterations will thereupon take place. The one officer that the Class doesn't possess is an Ex-General Secretary, and it is time the lack was filled. It is not too early now to begin the campaign.

At about the time when these words reach the light, the Class will be the recipient of a Questionnaire on the Reunion. Send no money, commit yourselves in no wise: it isn't necessary. All you are asked to do is to fill out the blanks fully and speedily, and send the result back to the office of origin, which is a synonym for Heine. He will then digest them, having a cast-iron system, and the results will be duly published.

In our summer's absence (and we're not going to palm a travelogue off on you, other than to say that René is still at Zelli's, and wished due note of this to be given to her many Technology friends) not much seems to have transpired for the class annals. Vital statistics took a sharp upward trend last summer, however, just as the last Review was going to press, as witness the following: Harris Birdsill McIntyre and Miss Eleanor Margaret Sumner were married on July 29 at Orleans, Cape Cod, and are now at home at 17 Angell Street, Providence, R. I. Hubert Mayhew Gault and Miss Gladys Edith Deihl were married on May 26, in New York. Walter Raymond Hewes and Miss Margaret Frances Fallon were married on June 12 in Hyde Park, Mass.

Then too, there is the happy announcement from Mr. and Mrs. Walter Mills Saunders, Jr., of the birth of Norman Williams Saunders on July 12. Every good wish for young Norman and his parents.

Nor is that all. It comes to light in these columns for the first time that Preston Robinson, who dropped in to see us on September 3, is the father of an heiress, Shavaun. We toss off another bumper.

A letter from Alan Johnson came to us from Dover, N. J., last spring just four days before our departure: "I'm working for the Hercules Powder Company as a chemist, doing research work on Naval Stores. . . . I saw Dwight Gray the other night at the Chemists' Club, and I've seen Duke Welling several times. There are several Technology men connected with this organization. Chick Frazier, '23, is down in Brunswick, Ga., Harris, '23, is here at the station and Ray Wheelock has just been transferred to the Wilmington office."

A clip sheet from the *Au Sable News* for July is the means of our discovery that L. F. Hickernell, with the Commonwealth Power Corporation in Chicago, is the author of an article on "The Standardization of Outdoor Substations."

Of callers we have had a few. One of the most unexpected was Norman Frisbee Patton, with whom the Secretary used to lisp Episcopalian liturgies at Trinity School in New York, but Norman, through a regrettable mischance, is a member of the Class of '21, and we must therefore say no more about him. . . . Charlie Roll dropped in on us one day toward the end of the summer, just after our return, and, Bill Stose then appearing, we immediately called an executive session of the Course X Alumni. Charlie is still with Johns-Manville, and was gathering courage for a plunge into Pittsburgh to last some months. Bill remains in Philadelphia, at the Point Breeze works of the Atlantic Refining Company. . . .

This is our grist to date. The humiliating result of non-coöperation is this month that the Class of '21, for the first time in history has more notes than we. It is to be hoped that this state of affairs will infuriate a few worthies who will write long letters about it. As for these young squirts in '23 and '24, they borrowed the whole Course Secretary idea from us, and are now utilizing it, the admission must be made, more effectively than we. Shall we let them get away with it?

ERIC F. HODGINS, *General Secretary*,  
Room 3-205, M. I. T., Cambridge, Mass.

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'23 After chewing the end of a pencil for one full hour, trying to think of some original and catchy way of opening these notes for the year, your Secretary has finally thrown away the pencil in disgust and gone back to the time-worn phrase, "Hello, fellows, hope you had a pleasant summer." The Class certainly made a great mistake in not electing a literary genius for its Secretary. However, since the mistake has been made, we will do our best to counteract its effect by giving a maximum amount of hot dope and a minimum amount of hot air.

I bumped into C. C. Mota at the Pops last June. When Mota left the Institute he went home to Porto Rico and made connections with the Department of the Interior. After some months of government work he shifted to the teaching profession, finding it more remunerative. He now has the title of Assistant Professor of Civil Engineering at the University of Porto Rico. He spent last year, however, at Technology working for his S. M. degree.

The other day I received an unexpected telephone call from P. S. Rice. Ricey, although supposedly tied down to Philadelphia, managed to break away for a short time and consequently the call. He is still single but prospects seem slightly brighter than at the last writing although he will probably deny this if you approach the subject.

Another unexpected telephone call revealed the fact that Walter Zapolski is again in town. He is with the Galvin Hadden Company of New York, stadium builders. I arranged a luncheon date with him and gleaned considerable information. I had to look twice, however, before I recognized Walter as my old classmate. He has raised a long, black, glistening, bristling moustache which gives him quite a dignified appearance. Walter is in town as resident engineer on the new stadium going up on the old Technology Field, Brookline. He expects to finish up the job in another month, after which he can be found at the Technology Club, New York.

Among the members of our Class who have laid aside, at least for a time, the engineering profession are Phil Kershaw, Jeff Hales, and Ed Pomykala. Phil, finding that he could never get rich at engineering, branched out in New York City and reports now have it that he is well along towards his first million in New York real estate. Jeff Hales is also tampering with the real estate market. His realm, however, is (or was) Florida. I hear that Pomy has been putting the tides to work

though not in the customary manner. The story is that he bought a water-front lot in Florida and began selling sand to contractors. As fast as he would scoop up a load, the tide would bring in another, thus he has a perpetual income which will rival that of any Florida real estate holder.

Mal Naughten has been found at last. After his marriage, some time ago, he dropped out of sight and has just been located in Philadelphia. Mal is in the contracting game with the Patrick McGovern Company. Roland Becker is another member of our Class who has recently gone into contracting. After spending a couple of years in New York, he finally went west and is now estimating for a contractor in Milwaukee. — J. A. Parker is another one of our New Yorkers. He is working for the Department of Plant and Structures, and has had part in several interesting municipal jobs, one of which was the vehicular tunnel under the Hudson. — The last time we heard from Norman Page, he was connected with the Hood Rubber Company in Watertown, but in what capacity we know not.

About once every four months, Burt MacKitterick squeezes a few minutes out of his busy day to give the Secretary a call. The last time I heard from him, he was all up in the air because he had to close down the shop for a holiday. It must be terrible to be in that condition and I never expected to see poor Mac there. Aside from his business activities, however, Mac and his wife are fine. If you ever happen to wander far enough from civilization to reach Lowell you can find Mac between the hours of six a.m. and nine-thirty p.m. with his nose in his cost sheets at 64 Fletcher Street. — Ralph Drury, we hear, is now with Stone and Webster in Boston, but further details are lacking.

The following was received from the publicity department of the General Electric Company of New York: "R. H. Parks, who entered the testing department of the General Electric Company after his graduation is a member of a group of six who constitute the first graduating class in the three-year course of advanced engineering, directed by Mr. R. E. Doherty, consulting engineer. The advanced course of engineering is the result of a conference held among a group of leading engineers. They considered what was regarded as the existing and the future demands for a limited number of highly trained engineers having the best possible knowledge and experience in applying the theory of mathematical and physical sciences to engineering practices. This was not only for the purpose of dealing successfully with problems of current business but for the solution of difficulties in new and untried fields. At the completion of the course each man will take up responsible work in one of the engineering departments." This course is highly competitive and we congratulate Parks on his completion of it.

Roland Forsythe is with the Otis Elevator people. I met him working on one of the elevators in the Liberty Telephone building but he was rising so fast I didn't get a chance to get much information from him.

Now we come down to our society column. Here is the first casualty that has come to our attention: "Mr. and Mrs. William B. Collinson announce the marriage of their daughter Alice Berry to Mr. Benjamin Philbrick Lane, on Monday evening, August 23, 1926, South Pasadena, Calif. — The ranks of our bachelors are fast becoming depleted. A clipping from the Boston Post brings this additional announcement: "Mr. and Mrs. W. Irving Bullard of Boston and Edgartown have announced the engagement of their daughter Barbara Anita to Joseph Humphrey Chadbourne, Jr., of Cambridge." Congratulations to both of the benedicts.

Johnnie Gegan was married to Miss Ethel Causegrove of Brockton on September 25. Johnnie and his bride will make their home in

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1923 Continued

Portland, Maine, where Johnnie is connected with the New England Telephone and Telegraph Company. — We understand, though unofficially, that the next wedding to take place will be that of Ed Averill and Miss Leah Wright of Lynnfield. Their engagement has been announced but we haven't yet learned the date of the big event.

I had a visit from Harold Cotter a short time ago. Cotter, with his old classmate Dale Davis, is working for the bureau of tests of the International Paper Company at Glens Falls, New York. These two chemists, as you will remember, have taken over the joint secretaryship for Course X and their first write-up appears in this issue. Don't forget, you chemists, to drop them a line or two.

If any of you Course VIII men after vainly perusing these columns for special Course VIII notes want to know the reason for their absence here, it is this. Your long, lean secretary, Bill Greenough, has departed from the Institute to seek his fortune in other climes. When last seen, he was hurrying past the corner of Tremont and Boylston Streets, on his way to Texas. He didn't stop long enough to give many details but he evidently is getting tangled up in oil. We will tell you more about it when we hear from Bill.

Before continuing with the notes from the courses, I have one matter of importance to the whole Class and I would like to call your attention to it. I believe you all know the financial condition of athletics at Technology. If you don't, suffice it to say that Technology has no self-supporting sports and the money from the student tax and gate receipts is not nearly enough to carry our teams in a respectable manner. Our Class, among others, has been appealed to to raise an annual fund to be turned over to the Athletic Association to help in supporting our teams. I am certain that the money is sorely needed and anything that we can do will surely be appreciated. If each man in the Class would subscribe to a class athletic fund to the extent of a very small sum, say, fifty cents, or a dollar annually, we could have a real share in the achievements of our athletes. What say you, boys? Will '23 show her loyalty by shouldering a part of this load? You will hear further particulars from me later. In the meantime think it over.

R. E. HENDRIE, *General Secretary*,  
12 Newton St., Cambridge, Mass.

## COURSE VI

This is the high-tension age and all the boys seem to be working under pressure so there isn't much time to communicate with the chronicler of events. But during the summer a few happenings have come to light and this much history is penned.

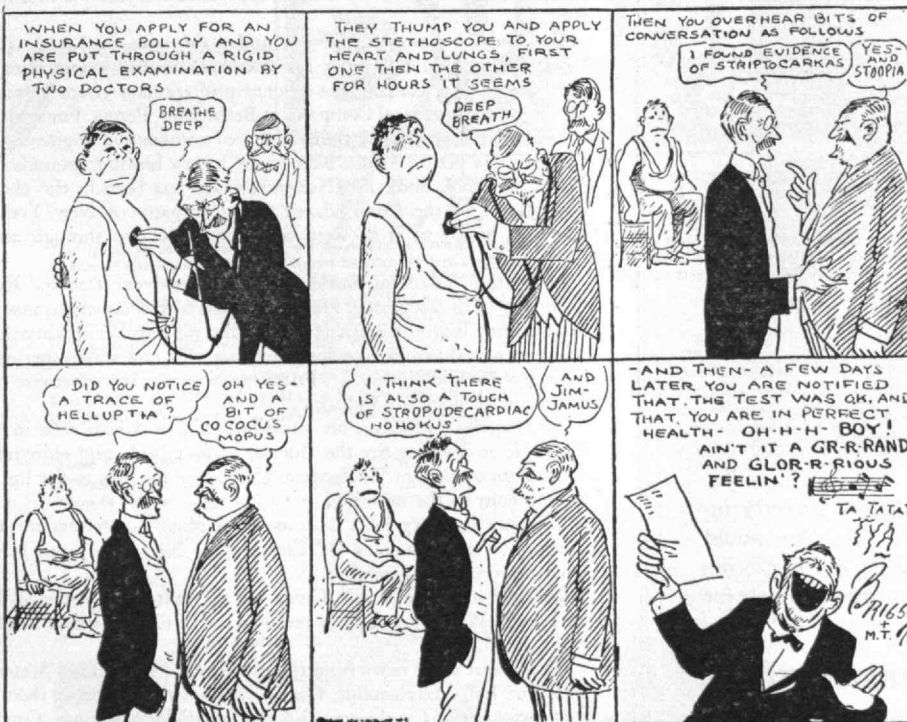
Eddie Rue, broadcasting from Boston, is still with the Boston Edison, making light of everything that comes his way. With Eddie Pierce and Dale Washburn he is abetting the manufacture of light-years and boosting the ton-miles of shekels coming into the company's coffers. — El Willis is dispensing Cutter breakers and Elpeco switching traps. — Jimmie Sil has gone back to India, after accumulating a Technology education and some research experience at the Holtzer-Cabot laboratories. We hope to hear sometime that he is electrifying Calcutta. — Baldy Haig has succumbed to matrimonial fever.

So much for the Boston territory. In New York, we find that Rod Goetchius quit sending telephonic pictures long enough to take unto himself a wife, the former Miss Elinore Eldridge of Amherst. Rod and Mrs. Goetchius make their new home at 167 North Grove Street, East Orange, N. J. Our best wishes to them. — Tom Rounds has left the New York Central in favor of the S-K-F Industries, Inc., and spends much of his time supervising the equipment of railroad cars with roller bearings. He radiates from the metropolis in the direction of Philadelphia, Altoona and other railroad centers. Tom had a very pleasant sensation recently. He recovered a wallet containing \$87 and valuable papers, after having lost the precious accumulation.

Joe Cox writes very interestingly: "As you know, I went with Westinghouse in the service department in New York City. Early in 1924 I got into the engineering department at East Pittsburgh. Since then I have spent my time investigating transients on transmission lines, using Mr. Peters' Klydonograph, experimentally and practically, in the field. Yes, I am guilty for part of the article on the Klydonograph in the October, 1925, *Journal of the A. I. E. E.*

"During the summer of 1924 Mrs. Cox and I were out in Los Angeles. I made Klydonograph tests on the Southern California Edison lines. The Far West made a great appeal to us and we hope to be there permanently sometime.

## Ain't It a Grand and Glorious Feeling? — By Briggs



Frederick Bernard, '17, *Special Agent*

THIS story of the healthy specimen, though well pointed, is somewhat inconclusive. Grand and glorious feelings go with good health; does not the ecstasy and the health go with wisely bought life insurance?

The flexibility of Northwestern contracts makes them suitable for every requirement. Let me tell you about them sometime.

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1923 Continued

"If you remember, I was connected with the Naval Reserve while at the Institute. At present I am commanding officer of the division in Pittsburgh. Last year we sailed out of Philadelphia for Bermuda. This year's plans include a sail up the New England coast."

A. J. PYLE, *Secretary*,  
University of Penna., Philadelphia, Penna.

## COURSE VI-A

Plenty of water has flowed under Harvard Bridge since last any VI-A notes were written. And so there should be plenty of notes to record, which is the case.

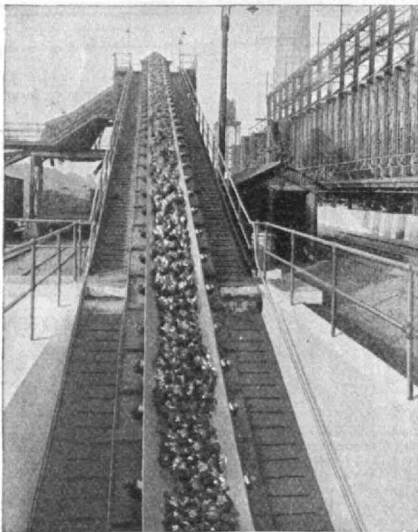
P. B. Alger is at present in Pawtucket, R. I., where he is working for the Blackstone Valley Gas and Electric Company. After leaving the Boston Edison, P. B. was for a time in the designing department of Stone and Webster. — Charlie Reeves is still with Boston Edison, and we understand recently had a fine advance in position. Charlie joined the ranks of the married ones last spring, but further particulars are lacking.

Speaking of the married ones, on September 10, Wally Trumper was married to Miss Marjorie Pinkham of Wollaston, Mass. And only the other day cards were received announcing the engagement of Hughie Spencer to Miss Helen Parker Power of Dorchester, Mass.

According to a letter recently received from Jerry Carper, Bob Shaw is now in Holyoke, Mass., where he is doing electrical contracting work. Jerry says that Bob has a fine job there. By the way, I guess that announcement hasn't as yet been made in these columns of the latest addition to Jerry's family — a daughter, Joan, born about April 1. The Carpers are now living at 1715 Commonwealth Avenue, Boston.

The VI-A News contains a bit of dope about Al Hartwright and Bill Appleton. Al is located in Jackson, Mich., where he is doing business for the Commonwealth Engineering Company. Bill is in Gary, Ind., designing sub-stations for the public utility operating there. His address is 448 Van Buren Street.

With the exception of the Secretary, the gang that went into the telephone business is still holding forth, — Freddie Travers in Boston, P. C. Smith and Paul Wilkins in New York, and Bob Henderson in Buffalo and points east and west.



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Your Secretary is now a cadet engineer with the Public Service Electric and Gas Company of Newark, N. J. The address you will note below and any one visiting New York or vicinity should call us up on Bigelow 2488 and receive directions as to how to get to Newark. If you don't get the "us" it just means that Miss Beatrice Stearns of Fredonia, N. Y., and John Thompson were married on June 30.

JOHN H. THOMPSON, *Secretary*,  
65 Clinton Place, Newark, N. J.

## COURSE VII

Milt Parker, with Walker Gordon Laboratory Company gave a paper before the American Public Health Association at Buffalo in October on "The Practical Sterilization of Milk Bottles by Chemical Methods." This paper is the result of considerable original work and apparently opens up a very practical method for the sterilization of milk bottles. — Bernie Proctor writes that he has completed a summer of work on a sanitary survey of camps for the State of New Hampshire. This is the third year that Bernie has had this summer work. We notice that he is now an instructor in the department and wish him the best of luck there.

Mr. and Mrs. Phil Riley journeyed to Chicago during the early part of the summer where Phil gave a course in "Vital Statistics for Nurses" under the auspices of some of the welfare organizations in that city. We had the pleasure of seeing them for an evening on their return trip. Phil is back at the Institute as an instructor this fall.

Very little has been heard from Smoke Fuller in his new work as sanitation engineer for the city of Jacksonville, Fla. — We tried to get news from Gerry Fitzgerald but a letter addressed to him at Washington did not bring the hasty reply for which he is noted, so we assume he is somewhere in the field. We played bridge with him a couple of times last summer and he seems to be holding his own pretty well. — No news could be picked up from Tom Duffield or Herman Swett.

I am still doing business at the old stand and have been unable to do anything exciting or spectacular.

E. A. GRISWOLD, *Secretary*,  
Apt. 18, 317 William St., East Orange, N. J.

## COURSE X

The genial Mr. Hendrie's hurried call for copy came just a bit sooner than we'd expected and hence the half dozen letters from Course X men, which must now be on the way, will arrive just too late for this issue.

Gus Belyea, however, did get under the wire, and with quite a newsy letter, too. Following his year in X-A Gus spent from June until September, 1924, in the student probationary course conducted by the Bethlehem Steel Company at Bethlehem, Penna. For something over a year he occupied the position of combustion engineer at the Lackawanna plant — right back in the happy hunting grounds of the Practice School. Since last November Gus has been in the chemical department of the Consolidated Gas Company of New York and seems as happy as if he were convoying *Voo Doo* through another brilliant year.

He writes, "Gladding worked with the Goodyear Tire and Rubber Company until last spring. He then moved to Buffalo and united with the du Pont Rayon Company. Since that memorable occasion he has spent six months in Europe for the firm and is now shift supervisor at their new Buffalo plant. . . . Entwistle is engaged or otherwise mixed up in the artificial silk industry."

Sal Guerrieri, while on his vacation, paid us a visit here in Glens Falls. He is working for the Bureau of Standards and enjoying the curriculum of George Washington University but has to get up at an unholy hour in the morning.

We hear that Ray Eiffe is an assistant plant superintendent and is working for the Standard Oil Company of New Jersey but have no other information about him.

Can any of our friends in China tell us what has become of Tsung Be Tsang? We do not think he received our last letter, written eighteen months ago.

How about some news from the members of the United States and Chestnut Hill Metabisulfite Company who used to drive their rival corporation, the Cambridge and Shanghai Metabisulfite Company out of dish pan lab, aided by the Department's tank of sulfur dioxide? Whatever became of the mercury twins and of the Ford corporation?

Let's have a lot of news in time for the next issue.

H. F. COTTER and D. S. DAVIS, *Secretaries*,  
International Paper Co., Glens Falls, N. Y.



'24 "The Third Year," an eight scene tragedy of the activities of the Class of 1924. The tragic part of the play is that part where the number of actors continually decreases. The principal actors in this play are some fifteen loyal secretaries who strive night and day all through the play by pen and typewriter to revive some of the stricken mob to take an active part. The first scene occurs immediately following a long summer vacation and depicts an attempt to assemble the entire company. Because of its brevity it is fittingly called "The Introduction."

First we want to talk about the various matters of a general nature and of universal interest to the Class. The matter of the Endowment Fund is one which has not been mentioned for some time. We are losing ground in this matter. Each anniversary produces a few who, through some slip of the memory (we hope not intentional), neglect to send in their premium. This, we hope, will serve as a reminder to them that we are dependent on them to keep up the good work and not permit the Class to lose its prestige in this matter. Harry Camp, agent for the Aetna, Horace Ford, Bursar, and the General Secretary are prepared to adjust your account no matter how much in arrears it may be and can even make arrangements to have your name entered on the records if it is not already there. A thing which goes hand in hand with the Endowment is the Alumni Association membership. Very little need be said about that since if you see this you have no doubt paid your dues.

The attention of the Class is called to the new University Club in Boston. At the time we were undergraduates, we can remember much discussion concerning the Club. Now, however, it is an established reality in nearly all particulars. Many members of this Class may be interested in the Club and for this reason we would recommend that they get in touch with George L. Gilmore, '90, who is chairman of the Technology membership committee and who may be addressed at the new club, 40 Trinity Place, Boston. In connection with this the General Secretary would like to suggest that the members of the Class around Boston follow the example of those of New York City who have formed a '24 club there. All assistance will be rendered the men who wish to do so. A list of the fellows in and near Boston will be made up if applied for. Any who are interested should write to George Knight, 117 Leonard Street, New York, to obtain a description of

how the New York Club works. Will anyone step forward and take the initiative?

A few, very few, notes are on hand at this time. Elbert C. Brown has announced his engagement to Miss Doris Winifred Potter. Brownie is working for the Hartford Electric Light and Power Company. — Charlie Stodter has announced his engagement to Miss Dorothy R. Sutphin of Long Branch, N. J. Charlie is now a lieutenant stationed in Fort Monmouth with the Signal Corps. — On June 5 Samuel Graham was married to Miss Barbara Marvin of Cambridge at St. John's Memorial Chapel in Cambridge. Miss Marvin is a graduate of Radcliffe. Sam is now engaged in civil engineering work in Los Angeles and will live in Sierra Madre, Calif.

On Monday, the 14th of June, Francis V. Rosseau was married to Miss Helen Stutz. The wedding took place in Summit, N. J., at the home of the bride's parents, Mr. and Mrs. Richard Stutz. Elden Pollock came on from Ohio and Roscoe Swift, Gubby Holt and Bill Coleman were there as the Guard of Honor. Francis was married at 5:20 p.m. and sailed one minute after midnight on the *Reliance* for six weeks in Europe. That was quite a night for 1924 for at the very same time Hal du Pont sailed on the *Aquitania* on his honeymoon. Francis' first job after finishing at the Institute was as a wiper on board this same ship *Reliance*. He worked at that task for nine months as part of his training.

Roscoe Swift and Gubby Holt, old time pals, both were married October 2. We have not been able to get first hand information from Roscoe as he hasn't been seen for some months. Gubby married Miss Alice Boutelle Miller at Quincy, Mass.

Tom Mattson is still in Boston where he may be located at 6 Derne Street with the Tenney concern. Duffy is working on electric motors for the Detroit Electric Service Company. Norris Johnston is teaching in the West. Al Bailey of Course IX-B has been in Hartford for a couple of months this past summer attending a school run by the Travelers Fire Insurance Company and is now employed by that company as a special agent with territory contingent to Boston.

As a parting shot, will some of you other fellows step on the stage so that we may make a presentable appearance this year? Curtain!

H. G. DONOVAN, General Secretary,  
2134 Park St., Hartford, Conn.

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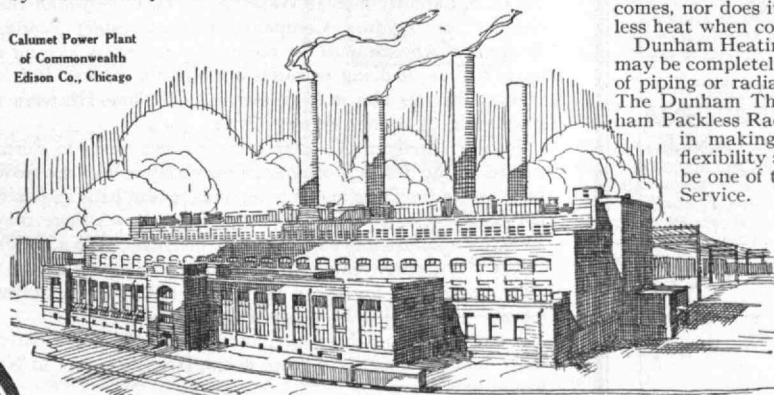
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1924 Continued

## COURSE I

Due to the clamlike reticence of his constituency your Secretary has but a few events of minor importance to record in this, his opening chapter, for the coming year. The first of these is his own wedding which took place at the Church of Our Savior, Brookline, on Wednesday, June 23. The unfortunate bride was Miss Mary Hamilton Grover, Wellesley 1926, the daughter of Mr. and Mrs. N. C. Grover of Washington, D. C. Shortly after the ceremony your Secretary and his bride took a one-way honeymoon to the thriving metropolis of Great Falls, Mont., where the western office of Charles T. Main, Inc., is engaged in designing and supervising the reconstruction of the Black Eagle Plant of the Montana Power Company. The tenure of office is uncertain, but the work which is being undertaken at present will last until November, 1927.

Ollie Jones was a close runner up, having married Miss Sybil Ellen Ray in Detroit on Wednesday, August 4. They will make their home in Jackson, Mich., in which place Ollie has been employed since graduation.

Our next member to make the trip down the aisle was none other than Bill Correale. Bill was married in New York City on Thursday, August 26, to Miss Eva Wolf Wagner.

A letter from Curley Fletcher brings the information that he has forsaken the street railways of Atlanta and is now engaged in helping to build a real honest to goodness hydro-electric plant for the Tallahassee Power Company at Calderwood, Tenn. The project involves a dam 200 feet high, five miles of tunnel, and a power house, so I would judge that Curley would be in the Tennessee fastness for some time to come.

Jack Nevin has hied himself northward from railroad building in Florida but his present whereabouts are unknown to your Secretary. Shortly before leaving Boston, I had a pleasant visit from Don Moore, who had also decided that Florida wasn't all it was cracked up to be, and was at that present moment trying to decide whom he should honor with his services.

Now that your Scribe has retreated to the wide open spaces, it is more than evident that if any news of our illustrious band is to appear

in these columns, such news must first be relayed to him via Uncle Sam's Postal Department. Gossip would never penetrate to these regions so that a hitherto reliable source of information is no longer available. Therefore, my hearties, put aside the tracing pen and plumb-bob for a short time and write to me your thrilling stories to help enliven a long Montana winter.

J. D. FITCH, *Secretary*,  
Charles T. Main, Inc., Great Falls, Mont.

## COURSE VI

John E. Jackson has stepped off as per this announcement: "Mr. and Mrs. George Richardson Jones request the pleasure of your company at the marriage of their daughter, Elinor Hart to Mr. John E. Jackson on Saturday evening, the twelfth of June. . . ."

Edmund Bruce left on June 1 for England to work there for a short period of time for the Western Electric Company. — Stretch Johnson is still with the New York Central at Harmon, living in Yonkers and spending most of his time making over cars, locomotives and motors for the railroad. Of the bunch that went to Schenectady, only Doc Cook remains, and the last heard from him was that he was broadcasting the different Technology shows from WGY. Oak Charlton and Harold Hazen are back at school showing the 1926 class how to do a thesis.

Walter Weeks reports that he is with the Winchester Repeating Arms Company, New Haven, as their plant engineer, and finds that every bit of information that he obtained at school is useful as well as a lot he didn't get there. The work is interesting but he writes that about September 4 he will be following John Early's example and cut the New Haven railroad out of a lot of week-end traffic.

H. G. DONOVAN, *Secretary pro-tem*,  
2134 Park St., Hartford, Conn

## COURSE X

Mr. Henry John MacMillan (good old Hank) was married on Tuesday, September 14. He married Miss Mary Ruth MacInnis, daughter of Dr. and Mrs. John M. MacInnis at South Pasadena, Calif. We would have liked to extend to Hank, personally, the sincere wishes of the Course, but although we didn't mind the walk to Pasadena, we didn't get the good news in time to be on hand. It is great news and we are mighty glad to hear it. We hope MacMillan will come back East so we can see him once in a while. He was working on research at the Institute last May where we saw him in the "dish pan" laboratory.

Lon Gregory is in the research department of the Philips Petroleum Company out in Bartlesville, Okla. — Cliff Bailey is still with the du Ponts at Wilmington, Del. Mrs. Bailey and Mr. Bailey have opened up their estate there and are doing splendidly. Our special correspondent reports all is well after a splendid week-end there. — Warren Hill is another sticker and we find that he is still with Rockland and Rockport Lime Corporation, in Maine. — Vic Smith is at the Institute in the Research Laboratory of Applied Chemistry. — Fred Reed is at Kodak Park. — Bob Mackie is with the Red River Refining Company in Chicago. — Howard Whitaker is in Chillicothe, Ohio, — with a paper company, is our guess. — Louis Freeman is in Burbank, Okla., with the Carter Oil Corporation. — Charlie Ford is messing up the U. S. Patent Office at Washington, D. C. — Julian Baldwin is a chemist for Sandura Company, West Chester, Penna. — Elmer Brugmann, who came to my rescue last spring by writing a monthly letter for me, is doing research work in the X-Ray Lab at the Institute. We saw him in May and he looked fine. His work seemed so interesting to us that we envy him.

Jose W. Loubriel, V, after spending two years in Porto Rico returned to the States in August. Everybody in this course knew Loubriel at the Institute and it is for that reason he is in this file. He reported a serious condition in Porto Rico. Down there they consider anyone a chemist who can follow the instructions in a book of chemistry. A B.S. means nothing. Jose taught school for a time and worked in a fertilizing plant for a year. He intends to stay in the States for some years.

I am with Johns-Manville, Inc., in the Eastern District, putting down industrial and acid proof floors. If you are ever in New York I would like to see you.

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'25 The long summer vacation is now over so I am trying once again to get enough notes together to fill The Review. The Course Secretaries are proving a big help, including two new ones. G. R. Tucker of North Andover, Mass., is covering Course V, and Hollis F. Ware of 248 Pearl Street, Springfield, Mass., is doing the same for Course XIV.

Henry Sachs wrote to me during the summer. I hope Tucker won't mind if I print his letter here instead of under Course V. Here goes: "Before leaving New York I told you that I planned coming over here, and by now the rest is all comfortably arranged. I thought this place, being on the border, meant that here's where Germany ends and Czecho begins, but now I know better — here's where Germany stops and Czecho ends! It's the wilds, a little town in the mountains, 2500 feet above mean low tide.

"I am in the employ of Steinberger Brothers, the largest and best kid glove factory in the world. As to my position, I haven't quite ascertained it as yet, but it is a sort of hybrid between general manager and office boy, with the 'skilled chemist' thrown in for good measure. We have our own tannery, dye shop, cutting plant, sewing room and all that goes with it. Bye and bye I intend to absorb all except the mastering of the sewing and embroidering, which I have decided to relinquish to the deadlier sex. Right now I am acting production manager and bawl out the foremen fifty per cent of the time, while the other fifty per cent finds me meekly filing pretty blue cards. I have started a little laboratory of my own and run occasional analyses for the plant. I intend to start a bit of research soon, and in keeping with the times might get out a non-skid glove (balloon size) though I shall first take the easier field and try my luck at dyeing. I haven't seen any prodigal sons of Technology so far. They are hard to lure away from Paris. Bill Dudley, '27, is over here now but I don't think there is much chance of seeing him. Louis Harris of Theoret fame is studying in Zurich and has a traveling National Research Fellowship. I understand he is to have it again next year. Bill Scripps of Course VI writes from the Antipodes that he is singing the song of the wage slave to the tune of the Southern California Edison Company. Ed Piepho, also an electropractor, just got out of VI-A and has a promising job with the Chicago Edison Company, doing cable research.

"If I ever get a vacation I'll live up to the true Technology spirit and start some deep researches of various mysterious kinds, so that

you will hear all about the inside dope of Europe. As likely as not I shall submit them to you prior to publication. Those fellows who go to Paris and London and come back and display merely an 'Oh baby!' when questioned, aren't fair to the rest of us. We must get to the real scientific truths.

"I wish I could send you a few kegs of Zurich and Pilsner beer. The latter is obtainable across the border — a ten minute walk. The border bridge has been worn down to such an extent since my arrival that the town has voted several million Czech crowns for repairs. Here's a good job for some enterprising Course I man."

If I had a few more letters like this, my job would be a snap. As it is I shall have to write a few lines on what has been happening in New York during the summer.

Our monthly dinners have been so popular that '26 is copying us. The three dinners have been improved by having a speaker, and at times lantern slides. In July, Captain J. H. Richardson, '99, told us how the Holland Tunnel, connecting lower Manhattan with New Jersey, is being constructed. He illustrated his talk with a number of well-chosen slides. Colonel Louis E. Robbe, '05, spoke on the "New York Subway System" in August. He told about the development of each of the three systems and went into the details of the new system. Besides explaining the methods of construction, with the help of slides, he spoke of the organization of the work and its cost. Everyone was very much interested, so much so that they asked questions for over half an hour. Mr. J. M. Perkins, '01, was the speaker at the September dinner, explaining how theatres are ventilated and cooled. In addition to giving us a clear idea of the mechanical equipment, he related several interesting and amusing stories. The first place to be cooled was a bar in Chicago, which, needless to say, became the most popular resort in town.

The following answer came in response to one of the cards mailed to find how many were coming to the last dinner. "Thanks, but I am going to be in Georgia." When he sees this I hope he will write me to tell who he is and how he enjoys Georgia.

I spent my two weeks' vacation in southern New Hampshire with my parents. With the exception of two or three days, it rained steadily, so it wasn't much of a success. Even the fishing was poor, for at the present cost of licenses our fish cost about \$6 per pound. I think I'll have to go up there again around Christmas, pray for snow, and attempt to do some ski-jumping!

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1925 Continued

The University Club of Boston has asked me to supply them with the names of men who would be interested in becoming members. From the circular they sent me, I should judge that they have a splendid, well-equipped building. If any of you are interested in a good place to stay while in Boston, you had better get in touch with the University Club.

FRANK W. PRESTON, *General Secretary*,  
17 Gramercy Park, New York City.

## COURSE I

Now that the summer is over and we have consigned the straw hat to the ash barrel we realize that it is time to think of The Review as well as of the World's Series. If our memory can reach back to the last issue we ought to be able to fill our quota of space in its columns. So, taking our trusty card index in hand as a jogger for the aforementioned memory, we proceed to the task.

According to Bhiromya's address card, he is with the Royal State Railway Department in Siam. The first card which stirs the memory is Broadhurst's. Back in June we heard that he was around the Institute at Commencement. He was going back to Florida where he was surveying some of the real estate in the past year. — Mal Davis is listed with the Southern Sierras Power Company in California. — On June 19, Miss Doris Nicholas of Salem, Mass., became Mrs. Wilbur S. Colby. They are living in Salem and Hank is still grinding 'em out for Stone and Webster in Boston. — Gilboy received his Master's degree last June and rumor has it that Professor Spofford will have to run his courses without Glen's assistance during the coming year. — Grushky and Hess are still working in New York as was reported last July. — Don Howe has taken unto himself a wife and, at last reports, he was with the Washington Water Power Company in Spokane.

Ralph Lewis is located at the U. S. Engineer's office in Chattanooga, Tenn. — Tom Lowe was teaching at the College of Engineering of the University of Florida during the past year but the Lord knows where he is now. — In the absence of reports to the contrary we assume that McLaughlin is still with the Boston and Maine Railroad. — George Mahoney is with the New Jersey Water Supply Commission in Newark doing both outside and office work. — It is with regret that we

have to report another falling off. On June 12, Miss Charlotte Babson of Melrose, Mass., and brother Myrick were united by the bonds of matrimony. We saw George in Stone and Webster's Boston office while we were home over the Fourth. He was working on the Conowingo water power development which Stone and Webster had just started. — George O'Brien's latest address is in Chicago. We met him last New Year's Eve in a restaurant in Boston about 1 a.m. He only had a few minutes to talk but he said that he was working on some sewer development out in Chicago, if the memory functions correctly.

I haven't heard about Odegard for some time but at last reports he was with the Aberthaw Construction Company in Boston. — George Olsen went with McClintic-Marshall last June and about the first of the year he was transferred to the new Ford plant in Somerville, Mass. — Herb Pierce is building a young railroad for the United Fruit Company in Cuba. — Putnam is still on water power work down in Jersey and we think that Daybert is there also. — Fred Rice was assistant to Professor Barrows last year. — Riegel is still with McGraw-Hill. — Robinson was married soon after graduation and departed shortly for Florida. We cannot state whether he is catching sharks or selling submerged real estate. — Fred Sommer is doing estimating work for the John W. Ferguson Company, in New Jersey. — Last, but not least (we blush), is Westlund. He is carrying around samples for the Marion Steam Shovel Company and is covering the New England territory.

It is easy enough to sit down and dash off a bunch of notes after having had the whole summer in which to collect them, but it won't be so easy for the other issues. In order to have a respectable offering for the other months we are going to send out cards each month to some of the fellows asking them to write a letter to the Secretary. You will want to know what the other fellows are doing and they will want to know what you are doing, so, for Pete's sake, don't be afraid to write and write plenty. We will try to reach each fellow once during the year.

As for the cub reporter, he is still on the American Sugar job for Stone and Webster and, at present, is turning out sugar bins. If any of you fellows who are in structural work want to get into some messy framing, try bins. They'll keep you busy for a while. The work is very interesting, though, and provides a good opportunity to learn something about complicated steel framing.

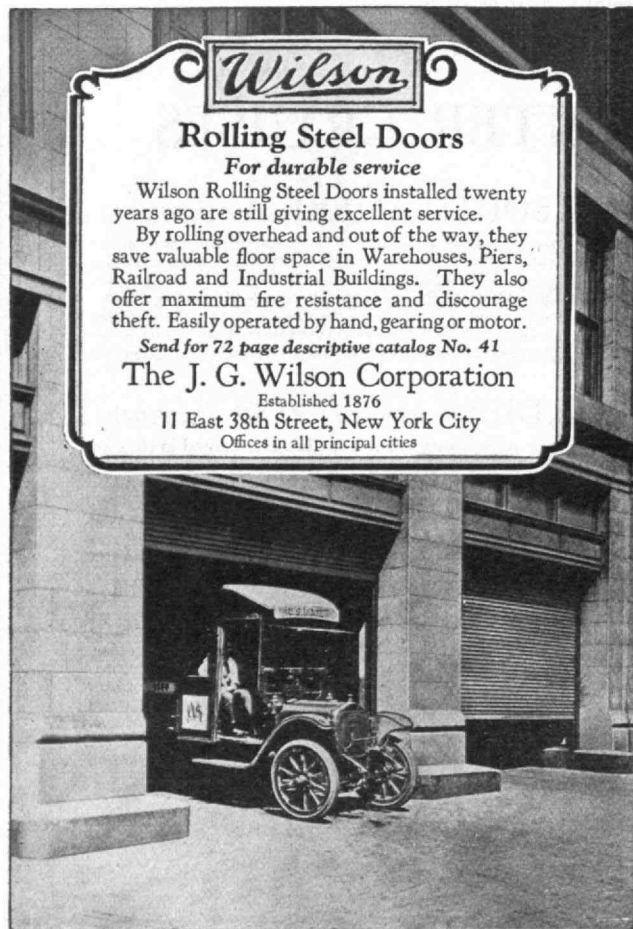
HAROLD V. ROBICHAU, *Secretary*,  
17 Gramercy Park, New York.

## COURSE II

Frank says I've got to hand in two pages of double-spaced notes by September 20 or get a D in the course, so here goes. The easiest part of the job is going to be the double-spacing — that and the wide margins. I shouldn't complain, though, for according to the oldest inhabitants at the Technology Club, '25 has evidenced more signs of life around New York than any class within the bourne of memory. That means easy news. On the third Wednesday of every month all the 1925 models from the White Factory on the Charles put on their other shirt and drift over to Gramercy Park. Even Henry Bacon has been known to be there, not on time, of course, but just as everyone else was going home. Gus Hall, the same genial Gus, is a regular visitor. He is installing a waterless gasholder on the East River. It seems that they used to put water in gasholders but Gus has changed all this. He is also quite a patron of the intimate theatre. Chick Doucette and Chink Drew are still at the "Y" in Brooklyn. Evidently Myron's thirst for learning wasn't quenched at the Institute for he has been spending his evenings chasing another degree at New York University. The rest of his time Chick spends editing a paper at the "Y" and on the B. M. T. first varsity.

Until recently, yet another well-known mechanical engineer made his home in Brooklyn. Walter Hickey — Walter and his pipe. It seems that there is a rigid city ordinance limiting the smoke density around there and after squinting at Walter's belching briar through a Ringelmann chart the smoke inspector recommended that Walter get a new pipe. Rather than suffer this indignity Walter served notice on the iron works and departed for Massena to delve into the manufacture of aluminum. Fate, unkind as usual, was not to be thus easily thwarted and on his way to Massena Walter lost his pipe!

Brooklyn must be fairly rampant with Course II men for only the other night Roger Parkinson called me up to say that he was in Brooklyn. Parky is helping the well-known team of Stone and Webster put up a sugar refinery but I suspect that there are other (I might say sweeter) attractions not far from New York which in-



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1925 Continued

terest Roger. Don Wheeler is helping to fill Brooklyn's quota of mechanical engineers also. He is engineer—that's the way they introduce him—for a young concern which makes a very remarkable kind of paper, suitable for anything from umbrellas to refrigerator cars. One Sunday in July I met Ed Collins on the sand at Long Beach. Ed hasn't changed much although you might expect the assistant to the chief engineer of the Audiffren Refrigerating Machine Company to be a little high-collar. Ed sure has the best sounding job of any one I have met yet.

Good old Dick has gone and done it. In fact, last July Miss Helen Hodgkins became Mrs. R. W. Tryon. Dick is working for the Standard Oil Company of New Jersey and Mr. Rockefeller is sending him on a tour of inspection covering most of the South and Southwest, not excluding Mexico. Mrs. Tryon will be with him on the trip and do you see how they can be anything but happy? Any mail addressed to him at Box 37, Elizabeth, N. J., will be forwarded.—I have also heard that Archer Nickerson was to have been married in early October. I guess it is safe enough to congratulate Nick.

The rare eloquence with which Professor G. B. Haven was wont to praise the Associated Factories Mutual evidently was not wasted, for Chuck Knight, Jocko Malone, Pee Wee Littlefield and George Gooben Witham are all engaged more or less usefully in the employ of the A. F. M. Their home office is at 145 High Street, Boston, but it seems that they aren't there very often, insurance being a sort of travel-while-you-earn game.—Hodson and Howard Smith are working for the Hood Rubber Company in Watertown.—Jack Roundtree is helping the Socony Oil Burner Company do a whale of a business at Niagara Falls. Jack won't have so far to go on his honeymoon and, what is more to the point, Canada isn't so far away.

Late Extra! I have just recovered from the '25 dinner at the Club last night and have a lot more hot dope. The rumor concerning Nick was verified. On October 2 he and Gubby Holt are going to be two of the principals in a double wedding.—Leroy Davis not only is married but has a third member in his family—no, I don't know whether it is a boy or girl.—Jim Holland, Lloyd Irving, Tony Lauria, Wade Johnson, and Bob Dietzold are all at Akron working for the Goodyear Company. Jim is in the pneumatic tire repair methods development department. Tony is developing accessories. Wade is specializing in fabric and Irving is in the highway's transportation department.—I have just received a letter from Dick Tryon. He is at Baton Rouge and this is the way he describes the place: "Thunder showers, red ants that bite, palm trees, good food, dust, humidity, heat, beautiful clouds and sunsets." Dick also sent me a couple of samples of southern cigarettes. I mention that merely in passing, not as a hint to the rest of you.—Parky, Frank Preston, Dizz Doucette, Gus Hall, Coe Hastings and Don Wheeler were all there last night.

Well, I guess it is about time to choke this off, but first I want to serve notice to everybody in Course II and tell you that you all owe me a letter. I would like to know what the old gang is doing. Yours for a busy mailman.

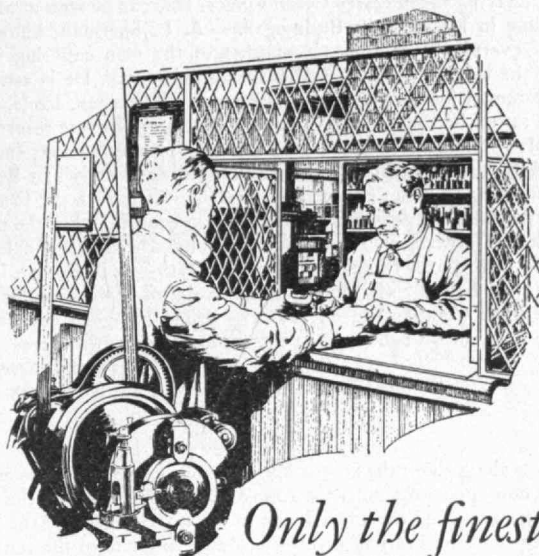
ROGER WARD, *Secretary*,  
17 Ash St., Garden City, L. I., N. Y.

### COURSE III

Frank Bemis is with The Anaconda Copper Company, Anaconda, Mont.—George Blonsky, known to all as Count, has sought for colder climates than supplied by Boston and is in Alaska. Letters addressed Drawer E, Fairbanks, Alaska, will reach him. The Count is doing very well and rates the title of Resident Engineer. During this last winter he made his first visit home since he entered Technology.—Jesse L. Maury is working underground in Butte, and is learning practically every phase of the game from actual experience. His address is 806 West Silver Street, Butte, Mont. He will be glad to hear from any of the boys who owe him a letter.

Ted A. McEndree, like some of the rest of us, is stuck way down in Poterillos, Chile, and is "shifting" in the New Andes Copper Mining Company. Mac is up 11,000 feet and is probably close enough.—G. A. Marsh is working for the Hood Rubber Company.—P. J. Morrell is in one of the Niagara Plants.—R. R. Brown is with the Illinois Steel Company.

Martin Buerger is one of the coming optical ceramic experts of the country. That is, we expect that of him, as he will instruct in the subject at Technology this year. Miss Chartkoff is in Cleveland, but until further search is made I can say no more. Cleveland is a pretty big town.



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1925 Continued

Doc Foster is an assistant in the Mining Department at Technology, having taken Harry Green's place. Doc can be seen at almost any time in his office in Building 8. — A. L. Sherman, known to almost everybody as Juice, is another of the men suffering in an out-of-the-way mine in a Spanish speaking country. He is assistant level foreman for Broden Copper Company, Rancagua, Chile. Juice writes rather bad reports on Chile as a health or pleasure resort.

J. M. Symonds is with the Inspiration Copper Company, Inspiration, Ariz., and is working in the mill. He still carries his Tau Beta Pi key, meaning he is not engaged. — Herb Taylor is with the Franklin County Coal Company, Herrin, Ill. This, of course, makes the recent troubles in Herrin clear. Those deaths must have been due to jealousies aroused in the rush to hear Herb recite. Herb was in Boston in the spring, but I didn't see him. — E. L. Waldron is working for Holcombe Steel Company in Syracuse. — Bruna has gone back to his native land, and, I believe, is in the mining game down there.

J. G. CREVELING, *Secretary*,  
Empire Gas & Oil Co., 60 Wall St., New York City.

## COURSE IV

It was along about the first of April that our former Class Secretary, who is now appearing under the guise of Acting President for the Class of 1925, summoned the undersigned to act as receptacle for the items of interest to the yearling architects. Being so far from the center of things pertaining to Technology and only lightly tied with the noblest of arts, I hesitated to accept the call. As you see, however, I am now your humble servant. What little news my inquiries have unearthed, I offer herewith:

Dinty Moore, or more correctly styled Roger P. Moore, writes that he is making F. S. D's and quarter scales of residences for Derby and Robinson whose office is somewhere on Beacon Hill. — Freddie Windsor, Norman Hershoff, Shep and a few others are still carrying on at Rogers, presumably outdoing themselves on the fellowship competition. — Maggie Burrows is roaming around Europe and spent this summer at Fontainebleau with Sammie McMurtrie.

Outside of Boston I have had very little news. A. B. S. Foale claims he is still single, but if he has been negligent of his opportunity in

that sphere he has made up for it in the interest in his profession. He has been doing some work in his father's office which shows the strain Professors Putnam and Sumner put him under.

Doug Steinman, when asked what he could say, replied, "In the vernacular of Will Rogers, 'All I know is what I read in the papers,'" but he goes on to say that he has been made a full-fledged member of the A. I. A. and that his office is prospering. That is not hard to believe as he had a personality that is more than ordinary. I wonder if he has given up his cross-word puzzles or does he use golf as a business asset? Bill Aikman, who was with us for a while, is working for that old reliable, Uncle Sam. He is at present stationed in the Engineers' Office at Chattanooga but he fails to enlighten further.

As for myself, I have been busy revamping the obsolete plant of a western power company by making floor slabs stronger, and stairs safe for the careless, hanging electric signs where they will obliterate the most architecture, and designing those company homes we used to hear about in Economics. I did free myself from rigorous duties last fall to spend eight days studying the land of pueblos and pottery which is both charming and unique. It did not take long to stir up an interest in those salmon colored walls draped with red chile and golden corn while the cottonwoods which once were cool and green stood bare and naked, silent sentinels of autumn against the purple mountains which seemed so near, yet were so far away.

One of the civil engineers, D. W. Howe, has fallen by the way for it was only a few weeks ago that I saw the knot tied that has taken him from the ranks of care-free mortals and made him face a world of responsibility. Notwithstanding his new position, he looks well and the former Miss Smart seems very happy.

Those of you who have read The Review need no reminder that Bill Cash has already achieved considerable and is having what would seem a very interesting time in Europe.

CHARLES E. PETERSON, *Secretary*,  
P. O. Box 473, Spokane, Wash.

## COURSE V

Bill Bishop is situated with the Herrick, Voigt Manufacturing Company of Bayonne, N. J., and is interested in gums and resins as applied to textile printing. During spare time he nurses an 1819 (maybe it's 1918) Flivver roadster. He got it from a gentleman who was cruel and abusive to it, and finally refused it support. — Paul Breer, so far as I know, is the only member of the old gang who has had the courage to indulge in matrimonial entanglements. He was married early in the summer, and is reported as living happily in Newark, N. J.

Joe Cashman is still installed in Norwood (near Attleboro), and is reported as rising rapidly with the Springdale Finishing Company of Canton, Mass. — John Chrystal spent the school year as an assistant in the organic laboratory at the Institute. Late in May he made an excursion to Torion, Mexico, but between the bandits and Mexican girls he was driven to take a position with some wire company in Cleveland. — Stanley Lane made a pilgrimage to Boston and vicinity the latter part of August. He came by auto, and, according to his own words, brought along a load of girls for company. He says there is nothing to worry about, however. Stanley is still engaged in development work with the Atlantic Refining Company of Franklin, Penna.

Ted Milne has a responsible position as metallographist and heat treater with Babcock and Wilcox of Bayonne, N. J. — The last time I saw Milot he was booming some kind of prepared milk for infants, and had dreams of studying medicine. — Harry Newman has gained twenty-five pounds with the Carnegie Nutrition Laboratory in Boston. — John Ramsey writes, "I am with the Boston and Maine Railroad in the capacity of rodman in the construction department, helping them spend some \$13,000,000."

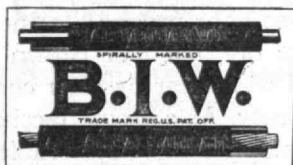
John R. Robertson set out to study chemistry in France, but has now deserted it, I am told, in favor of French Literature. — Freddy Walker is still at the old stand, and making rapid progress towards a Ph.D. If you must know, he is interested in an unsymmetrical structure for succinyl chloride.

As for myself, I too am still at the Institute. Last June it gave me a Master's degree, and I have hopes for something else some day. Sulfocinnamic acid derivatives continue to be the victims.

G. RAYMOND TUCKER, *Secretary*,  
Room 4-421, M. I. T., Cambridge, Mass.

## COURSE VI

In the July issue of The Review a list of the Course Secretaries was given to be of major assistance in compiling news. A secretary is dependent mainly upon the letters from far away places for informa-



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1925 Continued

tion other than local. So far, letters from Course VI men have been conspicuous by their absence. Let's rectify that condition, fellows, by sending a lot of information for the next Review.

Yormak has changed his position again and is now employed by the New York Edison Company. — Gagliardi and Abrahamson are still with Edison but have changed from the Test Department to the Distribution Department. — Goldman left about a month ago and, at last report, was still enjoying a vacation.

I ran into Ed Kerns the other day in one of the high-priced tea rooms on Vesey Street. He has left the General Electric Company and is now working in New York for the Radio Corporation. — Harry Postal has taken engineering very seriously and as a result is selling industrial real estate and doing well.

Whitehouse is still at the club (No, he moved to Brooklyn where garage rent is cheaper and stayed there after selling the flivver, F. V. P.) and works on the remodeling of a sugar plant. He is employed by Stone and Webster. — Harold West and Ricky Wheeler are still with the American Telephone and Telegraph Company. — I hear Timbury is with the Test Department of the New York Edison.

These notes are short but if you fellows will send in a carload of information next time, we will locate all the high powered executives and give you the low-down on them.

CORNELIUS J. ENRIGHT, *Secretary*,  
North St., Greenwich, Conn.

### COURSE IX

The justly famous and unjustly notorious Course IX always received more than its share of everything ranging from dirty digs to orphan courses but now the Secretary finds two misses — pardon — two Misses in our group of Class of '25 graduates. It is rumored that the girl friends are anxious to hear of their former classmates, so fill the old John Hancock fountain pen, if possible, that the Coop sold you at a loss (yours) and let us have a line from you, about you and of the whereabouts and activities of any other Course IX men you meet. By all means don't do it now! Put it off till you've forgotten it — and then try and find any news in this column.

Yours truly is at present telling the Air Corps how to build airplanes and is all up in the air about it. Let me start talking about this flying game and the issue will be monopolized. More later.

John L. Hosch is now instructing at the Air Corps Engineering School here at McCook Field and is teaching calculus, mechanics, aerodynamics and what have you. Louie has developed into quite a flyer, having successfully completed the six months primary flying training course at Brooks Field, Texas, last March. Incidentally, Hosch, Klein, Ross and myself, the four Technology men who were appointed there last September, all graduated in great form — a compliment to the Institute when it is known that only 147 of 255 entrants "earned their wings." Inasmuch as Captain E. P. Sorensen, graduate student in Aero Engineering, is now in charge of the Engineering School at McCook Field, it is rapidly becoming the little brother of the Technology course.

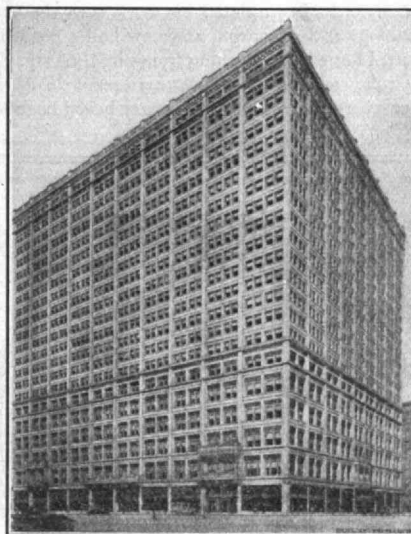
Tod Defoe was at Brooks Field but left in the middle of the course and was next heard from in Florida. "*Wo sind Sie jetzt, Herr Tod?*" or something like that. Tod replies as follows: "I am — but where is one in the aeronautical game? However, the Fairchild Aerial Surveys, Inc., of New York has now secured my valuable services, and it keeps me busy trying to live up to the reputation of a Technology Course IX man. I am still struggling."

And from Texas, we hear that Lieutenant Clarence B. Lober has just completed the course at the Primary Flying School at Brooks Field and is now at Kelly Field for advanced training. More power to your forced landings, Clarence!

With the cooperation of Dean Lobdell and Dick Lassiter, '24, we learn that Tom Price is in the Engineering Department of the Hamermill Paper Company of Erie and is living at the "Y." Dick enclosed the following clipping from the *Erie Dispatch-Herald* of July 16: "Miss Susan B. Cleveland, daughter of Mrs. F. A. Cleveland, 254 West Ninth Street, whose engagement to R. Preston Price was announced yesterday, graduated from Vassar College in June, and is a popular member of the younger social set."

Mrs. William Runnells Howard announces the marriage of her daughter, Evelyn Mosher, to Mr. Rakenius Julius Possel on Saturday, the third of July, 1926, New York City. They are living happily in New York City.

H. E. WEHLMILLER, *Secretary*,  
McCook Field, Dayton, Ohio.



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1925 Continued

## COURSE XII

Gilbert Noble is working for Maryland Refining Company, Box 205, Coffeyville, Kans., and is in the Research Department. I haven't any idea what these researches comprise but they must be helping the company.

Ralph Illsley spent one term last year as a graduate in Course XII, and was on the track of his S.M. when the Sun Oil Company sent in a call for an expert and Illsley answered. He is located in Dallas, Tex. — J. G. C., the perpetrator of this news, is a Divisionario Ingeniero for Mactezuma Copper Company, Pilaes de Nacozari, Mexico, after getting an S.M. at the Institute. His main worry at present is enough *Espanol* to manage his *aggu-date: Vive la Mexical*

J. G. CREVELING, *Secretary*,  
Empire Gas & Oil Co., 60 Wall St., New York City.

## COURSE XIV

Having incautiously volunteered my services as Secretary of the Course, I now offer my first collection, or I had better say, gleanings of news. Cohon, Norton, Palmer, Richter, and Zavoico maintain an abysmal silence. My letters failed to reach them or to move them, I can't say exactly which. I plan to send my news to The Review every second month, unless something of unusual importance comes up in the meantime. If those above-mentioned will communicate to this address, we shall be more than pleased to hear from them, and publish what they have to tell us.

My first encounter was with Ted Coyle. I had missed the next to last train to Springfield, and ran into him in the South Station while waiting. He told me that he was with the Chromium Products Division of the Metal and Thermite Corporation. He had at that time, in July, been advanced from research to installations. His address is the Jersey City Y. M. C. A., 654 Bergen Avenue, Jersey City, N. J. He heard that Ralph Norton had completed his work with the Carnegie Institute of Technology in Pittsburgh, and now had a position somewhere in Connecticut. I have heard nothing from him directly.

Clarence Thulin sent me a form post-card from the Aluminum Company of America, to tell me he was alive. I heard nothing more until

today, when a long letter arrived. Frank Klein wrote a while ago. He had abandoned electrochemistry for more exciting fields, that is, the Army Air Service and matrimony. He told me that he was located at Mitchell Field, Long Island. But he wrote just a day or so before the wedding and was too ecstatic to remember to mention the bride's name. Thulin to the rescue! Frank was married to Catherine Elizabeth Brainard, daughter of Mr. and Mrs. A. L. Brainard of Kenmore, New York, at Buffalo, on August 30.

Thulin himself has been working his fingers to the bone for the Aluminum Company. He doesn't complain, though; he merely mentions the fact. He is looking forward to easier days, now that he has his new resistance furnaces installed, and the men trained to operate them. He wishes his personal mail sent to 36 Allen Street, Massena, N. Y.

Your Secretary astounded his fiancée's relations and his own by marrying five weeks in advance of the date set, on July 25. She was Miss Charlotte H. Campbell of Medford, Mass., daughter of David C. Campbell, Harvard, '02.

I am learning the etched nameplate trade with the Chandler Company of Springfield, Mass., and having a good time doing it. There is only one other college man in the entire shop and he is one of the owners.

HOLLIS T. WARE, *Secretary*,  
248 Pearl St., Springfield, Mass.

'26 The Secretary perforce must be brief and to the point. If he were having classes he might cut a few to mutilate more thoroughly the President's English for 1926, but the Review Office permits no cutting and Wellesley, not to mention all the others, has just opened. But this is not being brief.

First, a financial accounting. Lee Cummings turned over to your Secretary \$224 as the residue of the 1926 Class Fund. Of this the Secretary has deposited \$175 in a savings account and kept the remainder in a checking account for working capital. If any aspiring Dawes has other plans to offer, they will be received open-mindedly.

George Leness reports that the Senior Week Committee might break even. For a time, however, George was on the verge of becoming stark gray. Several have not yet remitted for tickets sold. They are called upon to do so.

Address cards are now being sent to all Course Secretaries. This will facilitate their gathering news. It is also hoped that they will send some of this news to the General Secretary.

To the roll of drums and marital salutes, the promised wreath for the first marriage is hereby presented to Sidney Baylor who married Miss Lillian Rastigan on June 12. All the time we suspected Sid had an eye on the wreath. Two other marriages have been reported: W. H. Taylor on August 14 and E. L. Baxter a short time later. Now for the man that wins Bill Lowell's pair of baby shoes.

The following tart comment came in from Guy Frisbie in the Ohio wilds apropos an indiscretion of the Secretary in the July issue: "I came to Class Notes and found that I am working for a kitchen utensil factory! I swore loud and long. You were cursed to the pole and back. The Holbart Manufacturing Company makes Electric Food Preparing Machines. Do you call an eighty-quart mixer that weighs an even ton and will smash a 2" x 4" in the mixing bowl a kitchen utensil? To add insult to injury, Ken wrote me care of Troy Utensil Factory. I'll lose my job before long."

The Secretary is reproved and offers public apology. He might have known that a man with the foresight of Guy and an eye toward later domestic use would never make anything less than eighty-quart mixers.

A kind offer has been received from J. Goldberg to report the activities of his colleagues of Course X-B. It shall be his honor to work in collaboration with Lee Cummings, Secretary for Course X.

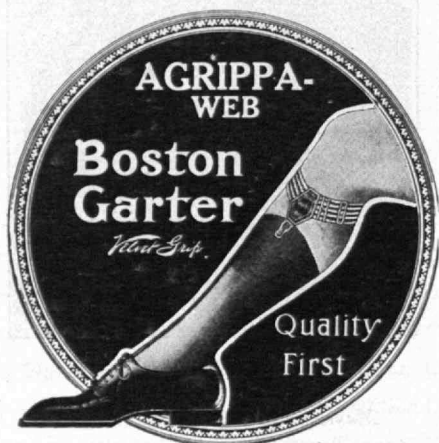
Enough. You are impatient to get to the scintillating gossip of the Course Secretaries. Peace be with you, Gentlemen.

J. R. KILLIAN, JR., *General Secretary*,  
13 South Russell St., Boston, Mass.

## COURSE I

George Leness mentioned to me that I should probably be called upon to wield the pen of Secretary for Course I. I was in Boston over Labor Day and saw George bossing a gang of laborers on the road behind the Institute.

It's been a pretty hard job to keep in touch with the fellows in the Course who left the Institute way back, years ago it seems, in June.



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1926 Continued

Bill Hoar and Marvie Pickett are down here with me at the Phoenix Bridge Company, working, of course, as lowly draftsmen. So that's the way my "career" (the quotation marks are essential) shapes up at the present moment.

On my return trip from Boston to Philadelphia I was unable to get any reservations, so I spent the night in a coach vainly trying to get some sleep, consoled only by the fact that I met St. Onge of Course II who was in the same fix. We passed the night by alternately calling up reminiscences of the Varsity Shop and damning the Pennsylvania Railroad for not supplying a few more Pullmans.

I've managed to pick up a few odd items about several of the members of Course I which will have to do until I manage, within a few weeks at most, to get letters out to all the fellows.

Sam Brooks is now working for J. R. Worcester of Boston. — Bill Latham is with Barney-Ahlers. — McKeon, at last reports, was working for the Curtis Airplane Corporation at Long Island. — A. W. Peterson is doing some field work with Stone and Webster. — Don Sampson and W. W. Peterson were with the American Bridge Company at Philadelphia.

I have a lot of dope on the whereabouts of many of the others, but I'll save it until I can sift it all out and write a decent letter about it. In the meantime I'm going to try and get in touch with every fellow in the Course by personal letter if possible.

WILLIAM MEEHAN, *Secretary*,  
234 Fourth Ave., Phoenixville, Penna.

## COURSE V

Since the astoundingly rapid disintegration of that complex molecule, Course V, in the early part of June, the paths of flight, vibrational frequencies, and points of rest of, roughly, only half of its constituent atoms are known. The gleanings of short interviews and hearsay are arranged alphabetically.

Ernie Baxter, who craved organic research, is settled in Rochester, doing industrial stuff for our benefactor, Mr. Eastman, and eagerly awaiting next year's bonus which will undoubtedly enable him to marry The Girl.

Barney Billings was encountered on Massachusetts Avenue, clad in *le dernier coi*, on his way to work at the United Drug Company. Bill has joined the Army and Navy Club and was carrying a *Golden Book* magazine with which to fill in the odd moments between tooth-paste analyses. Parked at the entrance of his new work-place Lyman disclosed how Stan Cheney was located with the American Woolen Company in Lawrence, dabbling around with his primuline, and that Sandy was making frequent visits to the Neponset River for water to analyze for Metcalf and Eddy, Consulting Engineers. Boys, just see what I missed.

This completes the news. Please write to us so there will be more next time. If you're too busy to write a letter, send a card giving address and please state: (1) "I am doing analytical work" or (2) "I like my job." As a matter of secondary interest, who are you working for, if we don't already know?

Example: "Mac, 115 East 19th Street, N. Y. C. I do analytical work, U. S. Rubber Company. Like the city pretty well. The lab is in dire need of the application of precision of measurements. Regards to all the other atoms."

I. R. MACDONALD, *Secretary*,  
115 East 19th St., New York City.

## COURSE XI

Had two of the Class of 1926 decided four years ago to take up something other than Course XI we would have had nobody but ourselves to talk about, which wisdom and not modesty would, of course, prevent.

We are about to introduce sixty-seven per cent of Course XI, 1926. Meet Richard W. Sherman of Belmont, Mass. "Inconspicuous" should be his middle name. While we were slaving ninety hours on our plate guides problem, Dick strolled in about three times and got his P at the end of the term. J. L. Speert was about the youngest man to graduate in 1926. He took back to Baltimore, Md., with him degrees in Courses I and XI.

Some day we hope he will tell us whether or not he ever used a textbook. We never saw him with one. He could write less and get more than any man we ever saw or expect to see.

GEORGE ROSS, *Secretary*,  
1674 Beacon St., Brookline, Mass.

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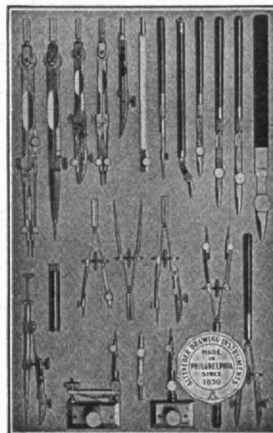
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## COURSE XV

Now that the fall is almost here it makes me feel as though I should be packing up to get back to the Institute for another year at the old stand. No doubt the same feeling has come to many of you and will more so during the following few months. As it will be impossible for us to greet each other personally at the opening of school let's everyone greet the other fellow by mail and let each other know what we've been doing. Everybody is anxious to hear about the other fellow. A record book is to be kept of each man's progress so let's see if you can crowd your page full of facts and figures. It's nigh unto impossible for me to write every one at the start-off, but if everybody will drop me a line as to what they are doing, I'll be prompt in answering and sending any information along about those they wish to know of and in addition we'll be able to keep this column chuck full of real live XV notes — the liveliest course in the Class of 1926.

So far, I have the low down on the following fellows: Bill Lowell is in Newburyport learning the shoe business. He promises a pair of first quality baby shoes to the first XV man to be a proud father. — Frank Cramton is in Akron, Ohio, with the Firestone Tire and Rubber Company. — Martin Fireman is out in the Wild West according to the latest reports, a regular engineer, we hear, as far as appearances go. — Bill Coker is in Virginia. In fact, he's all over the state working for a Richmond firm of engineers who are building a dam. — Harry Howard is with the Plimpton Press studying to be their future production manager. — Ken Lord is out in Cleveland working for an electrical concern. — Brad Young and Wick Eddy have made quite an impression with the Bell Telephone Company of Pennsylvania, judging from what their boss told me not long ago. — Dick Rothschild is in Alabama. Just what he is doing seems to be rather indefinite as yet. — Les Currier is in Dansville, N. Y., trying to get it through his head how they make paper. He claims he's the least inefficient of the force. — Guy Frisbie, with his usual eye to business, has gone to work in an eighty-quart mixer factory out in Troy, Ohio.

That's about the limit of my resources for this time. By the next issue I hope to have XV correspondence well under way. Don't make me wait for the Alumni Office to furnish me with your new addresses but come across with all the news you have. Let's fill the book.

T. W. OWEN, *Secretary*,  
739 Quebec Place, Washington, D. C.

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DIVISION OF INDUSTRIAL  
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*Calls the attention of Alumni to the listings of available men and positions noted below.*

POSITIONS are OPEN to men  
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No. 1041. The Navy Department, Bureau of Yards and Docks at Washington, D. C., has several opportunities for civil engineers to work out projects in Haiti.

No. 1042. A large growing concern is at this time looking for a high class machine designer. The compensation for this position is a secondary matter. We will be glad to hear from very successful men who will consider a change.

No. 1043. A firm in Louisiana needs a chief draftsman who can lay out and design paper mill machinery and equipment. The concern has interests in Florida and Porto Rico. A man who has been graduated from three to six years will probably qualify.

No. 1044. An insurance company of excellent standing wishes to find a Technology graduate who has had experience in the actual erection of structural steel. The company has contracts to provide safety insurance programs for large construction propositions. A man who can bring to the company a working knowledge of structural steel field methods and who can organize a safety campaign of large proportions will be of great value and be paid accordingly.

No. 1045. A company building experimental residential houses desires a capable construction superintendent to take charge of construction within 50 miles of Boston at a good salary.

No. 1046. A mid-western firm which makes fractional horsepower motors, fans, and so on, needs a specialist who understands the design of such motors. A man who can apply the correct type of small motor to separators, meat grinders, vacuum cleaners, blowers, dentist's tools, and so on, is necessary.

No. 1047. Men especially qualified to do research work on rectifiers and converters are needed by a large electrical concern.

No. 1048. There are opportunities for recent graduates who desire sales work with a firm in New York which is agent and distributor for a line of tools, equipment and supplies for railroads, shops, mines, ship yards, and so on. Civil and mechanical engineering graduates will have preference.

*All inquiries should refer to numbers and should be addressed to*

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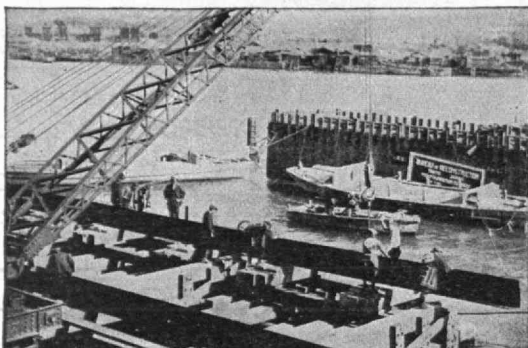
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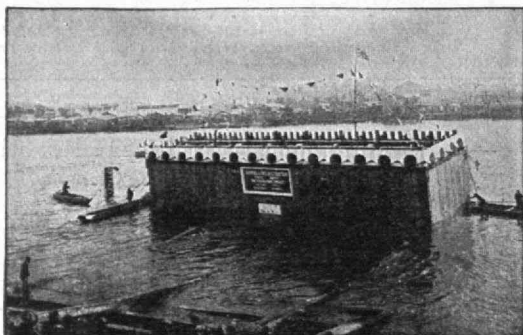
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# "Sandhogs" Are Working In Japan



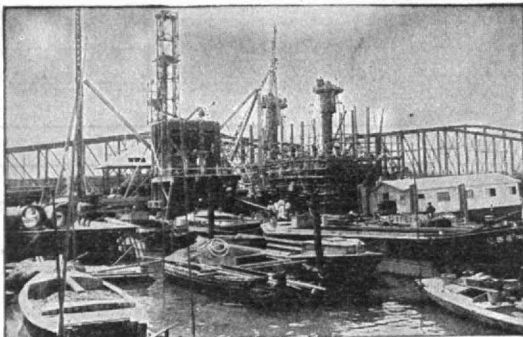
Pneumatic caissons and the men who work under air pressure within them—called "Sandhogs"—have been introduced into Japan by The Foundation Company.

As a result of the great earthquakes in 1923, and to avoid future destruction should they recur, unusual forms of construction are being used in Japan.



The Capital, Tokyo, like Venice, has a maze of waterways and many bridges span them. In the building of new bridges over the Sumida River, which divides the city, construction under air pressure was necessary to reach stable foundations.

Importing modern pneumatic equipment from America, the Japanese, under the supervision of Engineers of The Foundation Company, have built the new bridge piers.



The laying of a cutting edge of a caisson; the launching of one; and the installation of pneumatic equipment are shown in the views.

Foundations are but one of many types of structures built by this organization.

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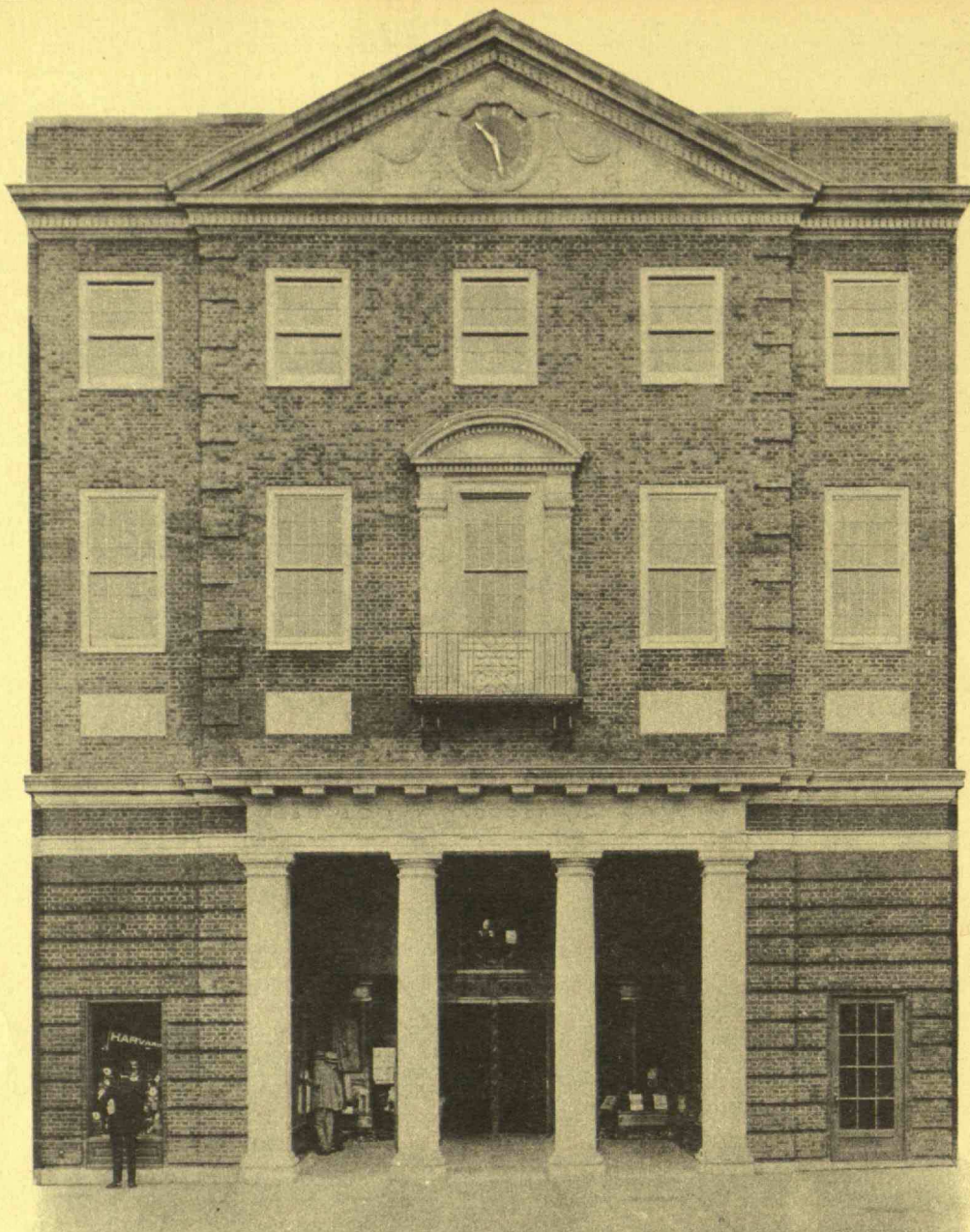
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